

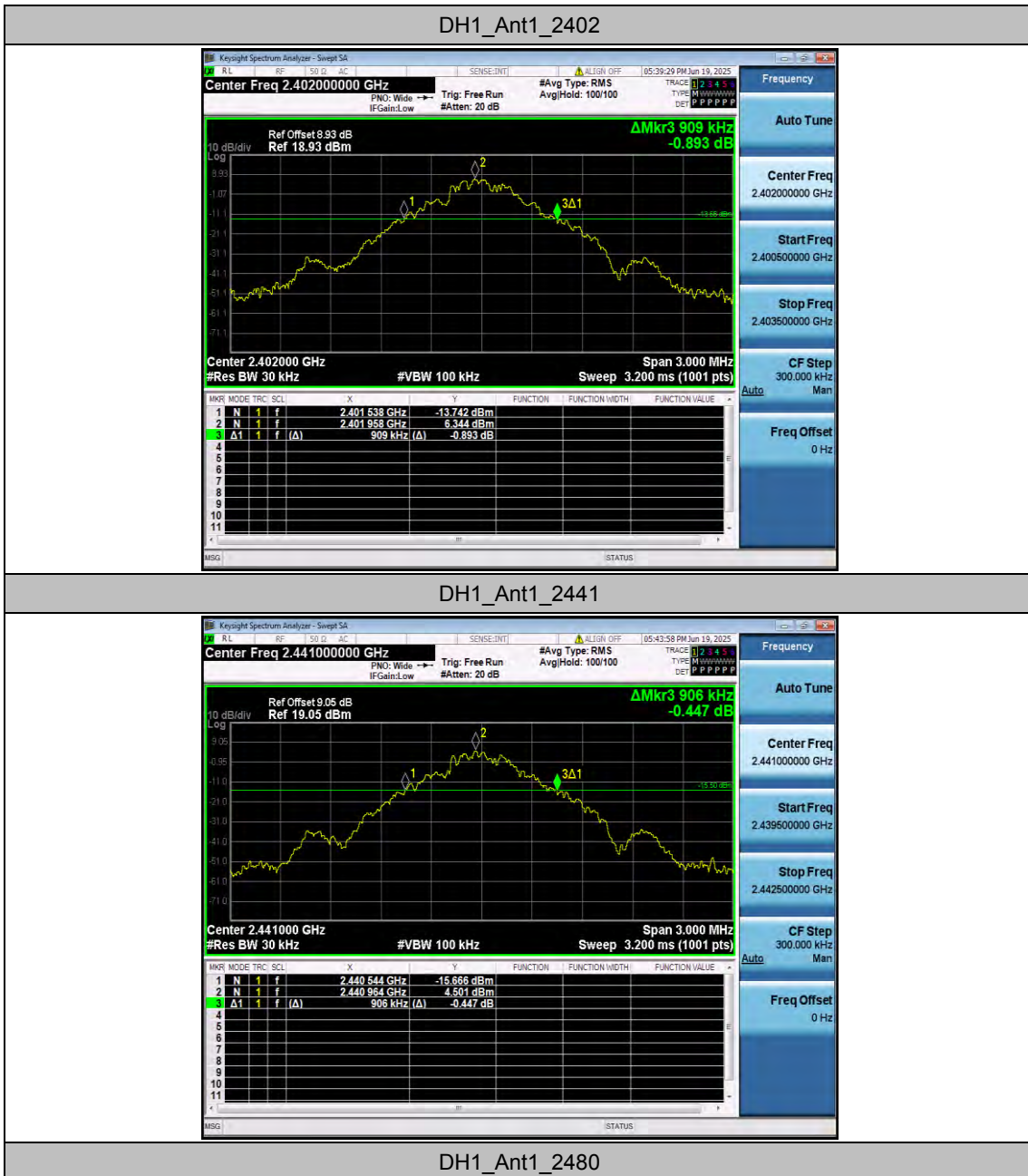
Case No. : <u>GTS20250530022-5-01</u>
Ambient Condition: <u>22 °C, 51 %RH</u>
According Standard: <u>■Part15C</u>
Test Date: <u>2025.6.17</u> Test Engineer: <u>Evan ouyang</u>

Appendix A.1: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.909	2401.538	2402.447	---	---
		2441	0.906	2440.544	2441.450	---	---
		2480	0.945	2479.544	2480.489	---	---
2DH1	Ant1	2402	1.428	2401.277	2402.705	---	---
		2441	1.422	2440.277	2441.699	---	---
		2480	1.428	2479.271	2480.699	---	---
3DH1	Ant1	2402	1.443	2401.277	2402.720	---	---
		2441	1.452	2440.274	2441.726	---	---
		2480	1.422	2479.268	2480.690	---	---

Test Graphs





2Dh1_Ant1_2402



2Dh1_Ant1_2441



2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



3DH1_Ant1_2480



Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.86286	2401.5663	2402.4291	---	---
		2441	0.86839	2440.5702	2441.4386	---	---
		2480	0.85957	2479.5662	2480.4258	---	---
2DH1	Ant1	2402	1.3388	2401.3189	2402.6577	---	---
		2441	1.3373	2440.3265	2441.6638	---	---
		2480	1.3336	2479.3265	2480.6601	---	---
3DH1	Ant1	2402	1.3312	2401.3301	2402.6613	---	---
		2441	1.3345	2440.3313	2441.6658	---	---
		2480	1.3371	2479.3244	2480.6615	---	---

Test Graphs





2DH1_Ant1_2402



2DH1_Ant1_2441



2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



3DH1_Ant1_2480



Appendix A.3: Maximum conducted output power

Test Result Peak

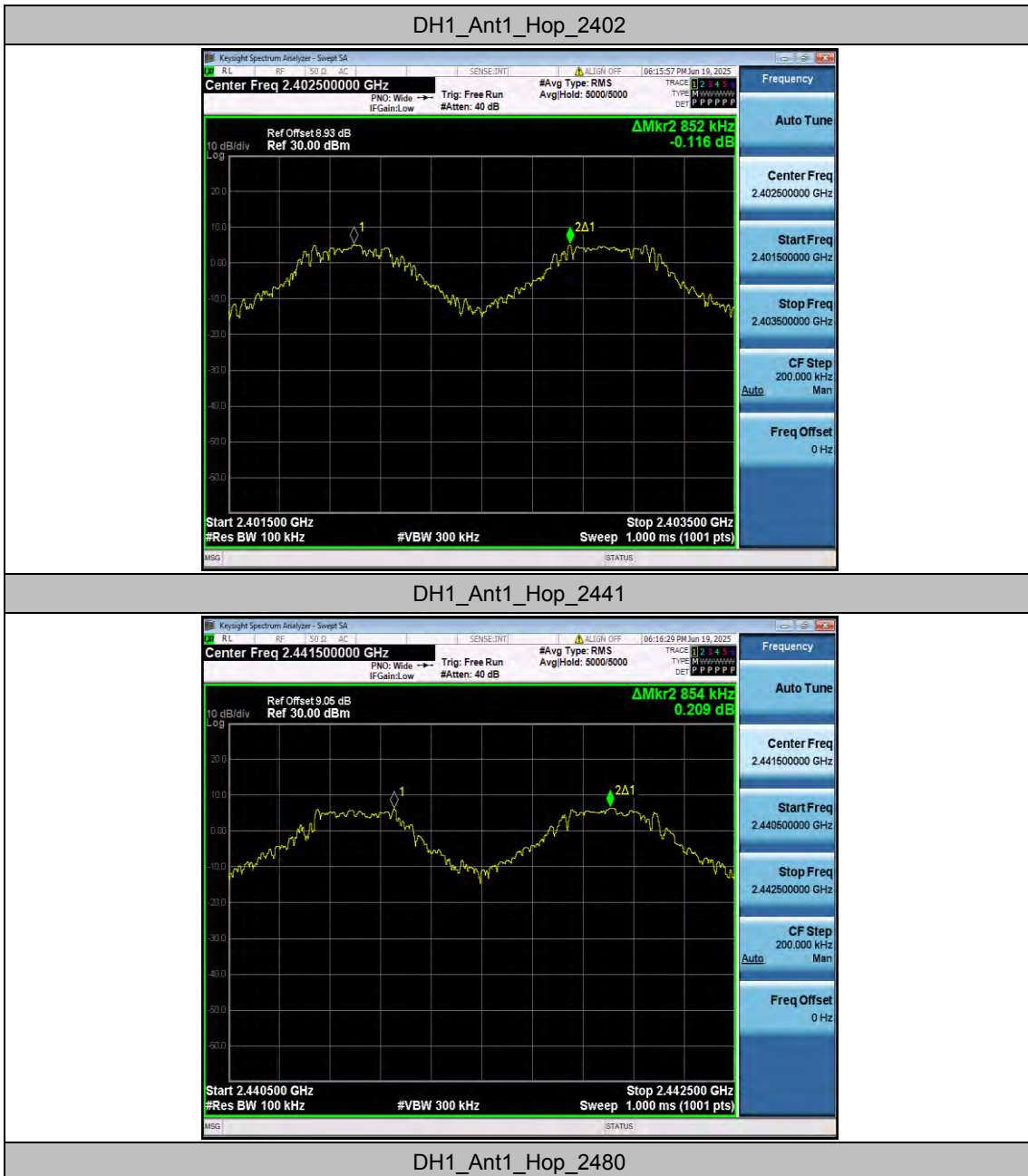
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	9.73	≤20.97	PASS
		2441	7.42	≤20.97	PASS
		2480	10.76	≤20.97	PASS
2DH1	Ant1	2402	7.62	≤20.97	PASS
		2441	8.47	≤20.97	PASS
		2480	8.72	≤20.97	PASS
3DH1	Ant1	2402	7.78	≤20.97	PASS
		2441	8.57	≤20.97	PASS
		2480	8.83	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.852	≥0.630	PASS
		Hop_2441	0.854	≥0.630	PASS
		Hop_2480	1.024	≥0.630	PASS
2DH1	Ant1	Hop_2402	1.006	≥0.952	PASS
		Hop_2441	0.99	≥0.952	PASS
		Hop_2480	0.976	≥0.952	PASS
3DH1	Ant1	Hop_2402	0.982	≥0.968	PASS
		Hop_2441	1.16	≥0.968	PASS
		Hop_2480	0.99	≥0.968	PASS

Test Graphs





2DH1_Ant1_Hop_2402



2DH1_Ant1_Hop_2441



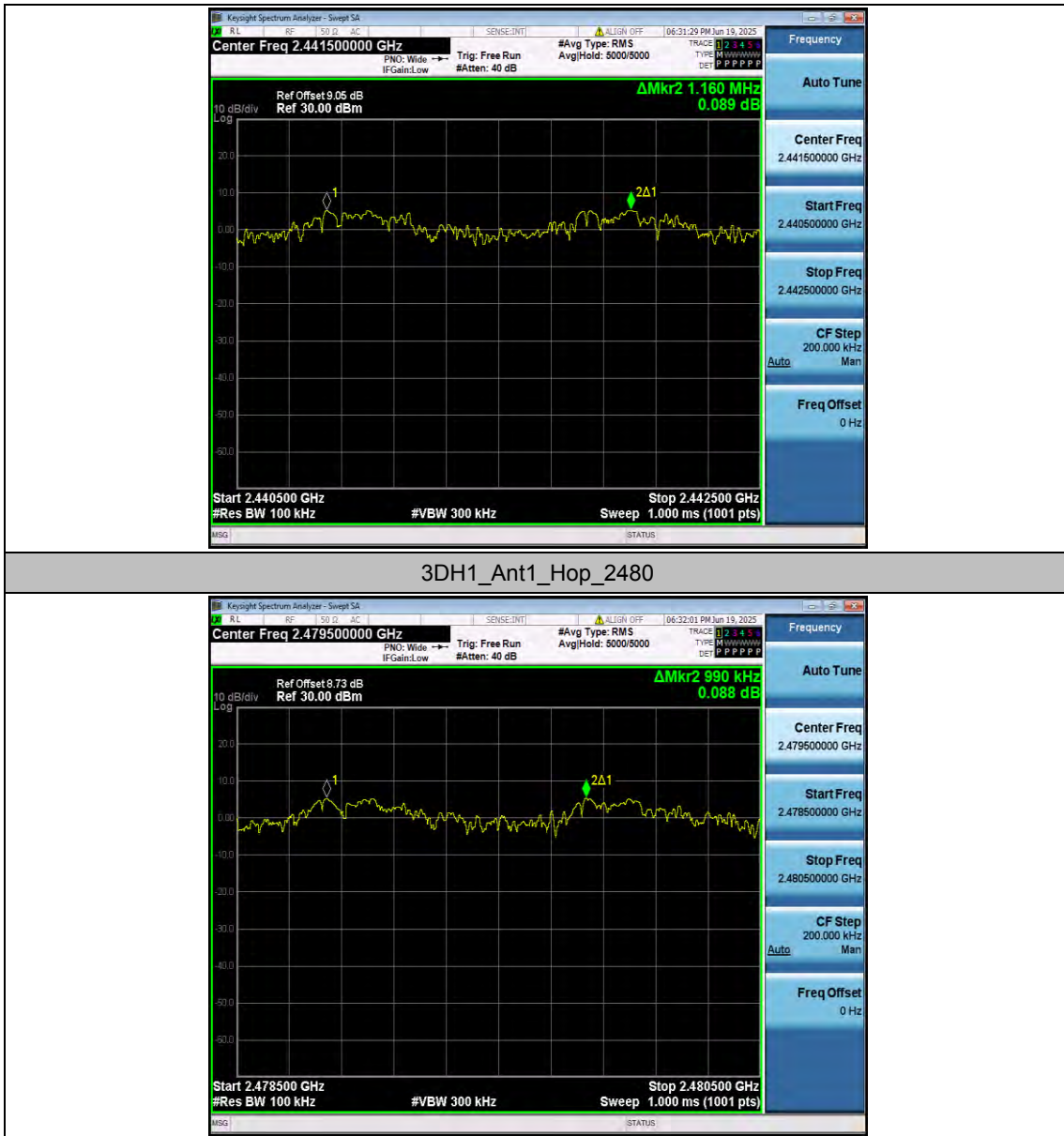
2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441

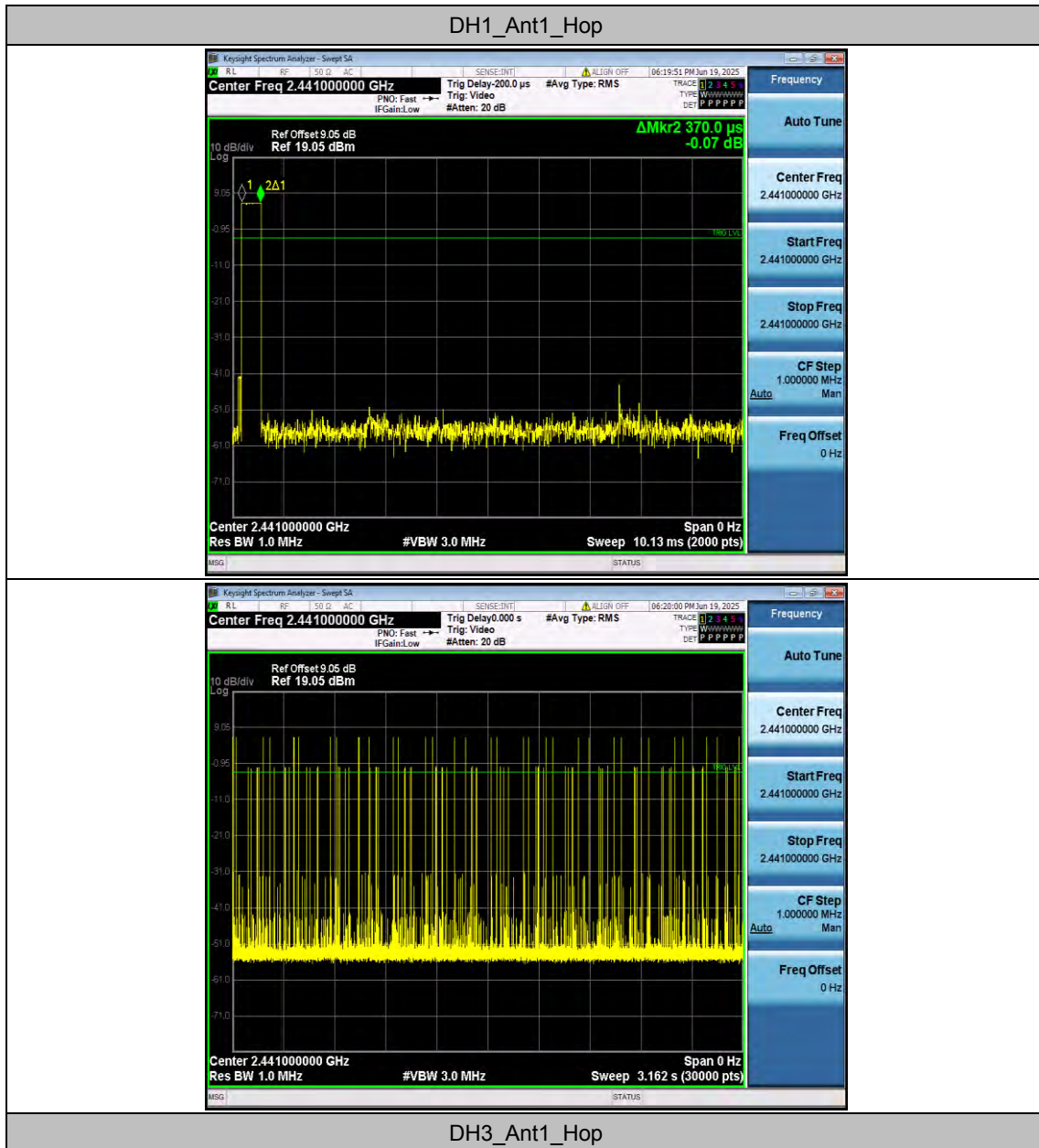


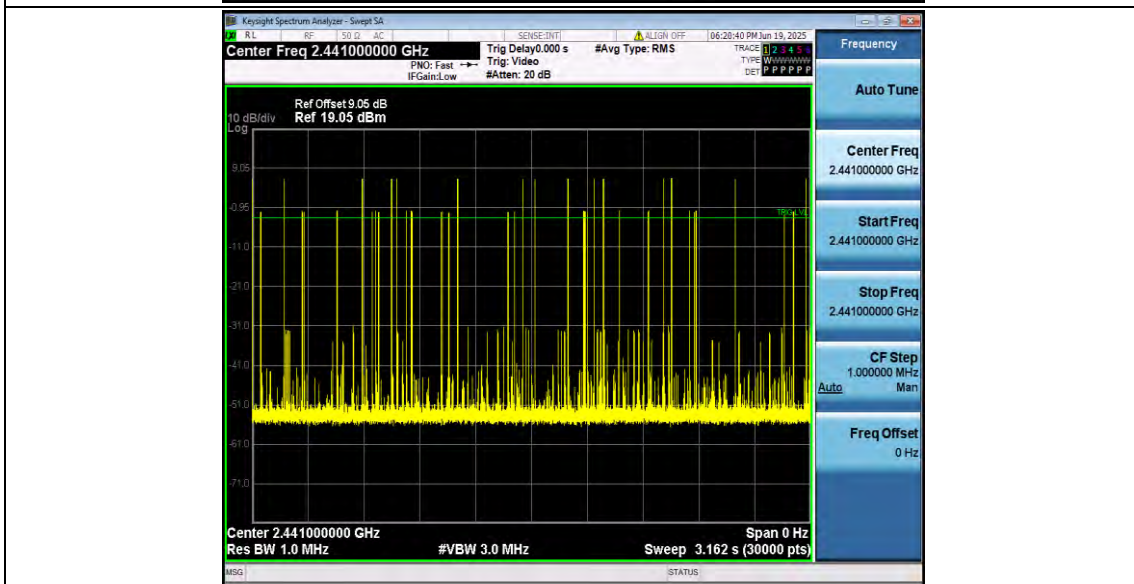
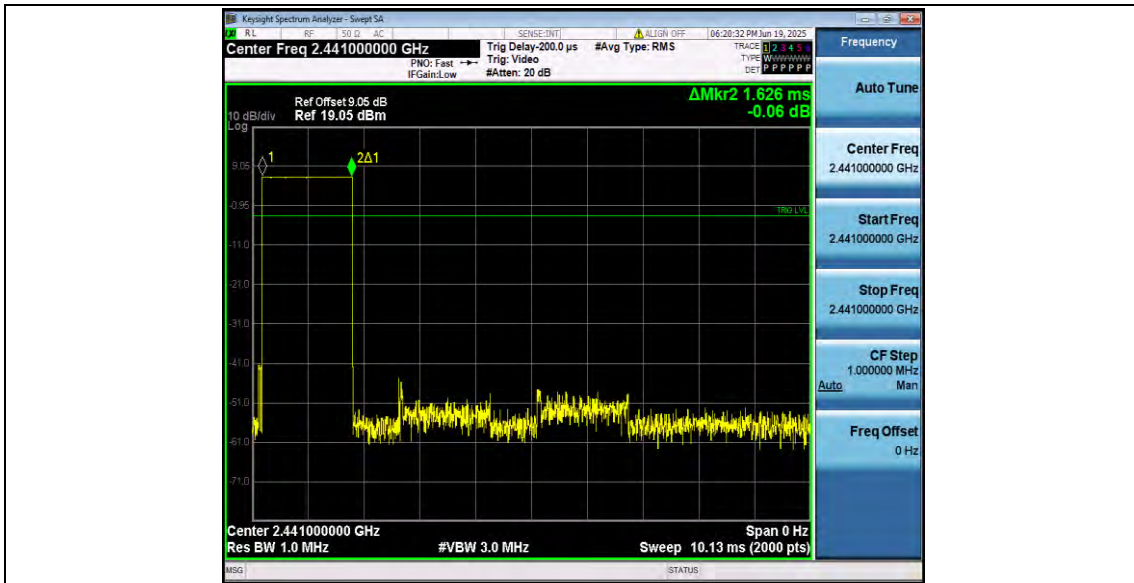
Appendix A.5: Time of occupancy

Test Result

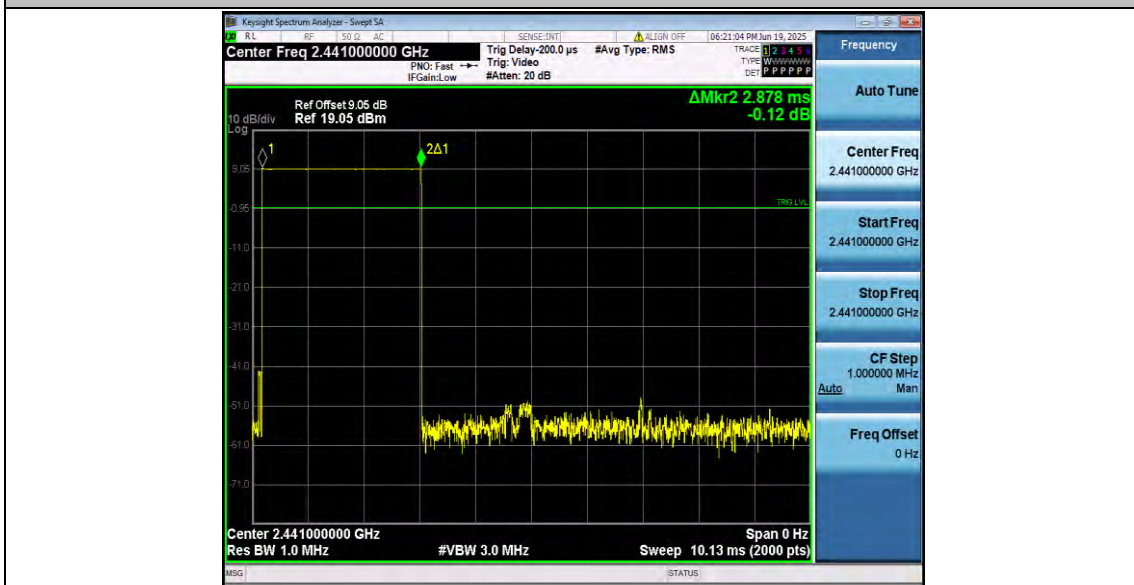
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.370	330	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.626	150	0.244	≤0.4	PASS
DH5	Ant1	Hop	2.878	40	0.115	≤0.4	PASS
2DH1	Ant1	Hop	0.370	130	0.048	≤0.4	PASS
2DH3	Ant1	Hop	1.626	50	0.081	≤0.4	PASS
2DH5	Ant1	Hop	2.878	80	0.23	≤0.4	PASS
3DH1	Ant1	Hop	0.370	330	0.122	≤0.4	PASS
3DH3	Ant1	Hop	1.626	150	0.244	≤0.4	PASS
3DH5	Ant1	Hop	2.878	130	0.374	≤0.4	PASS

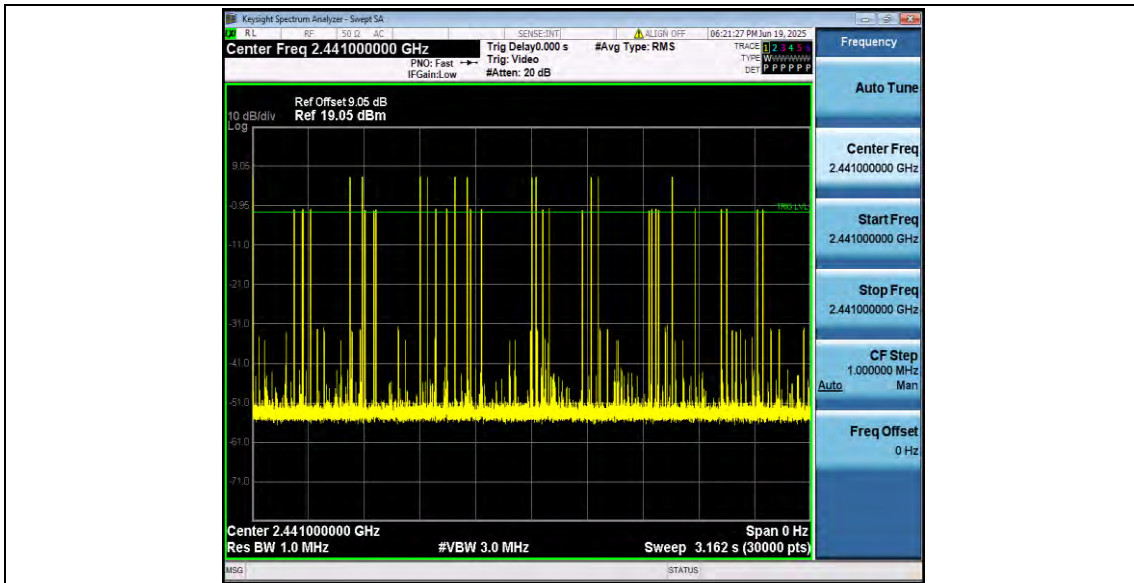
Test Graphs



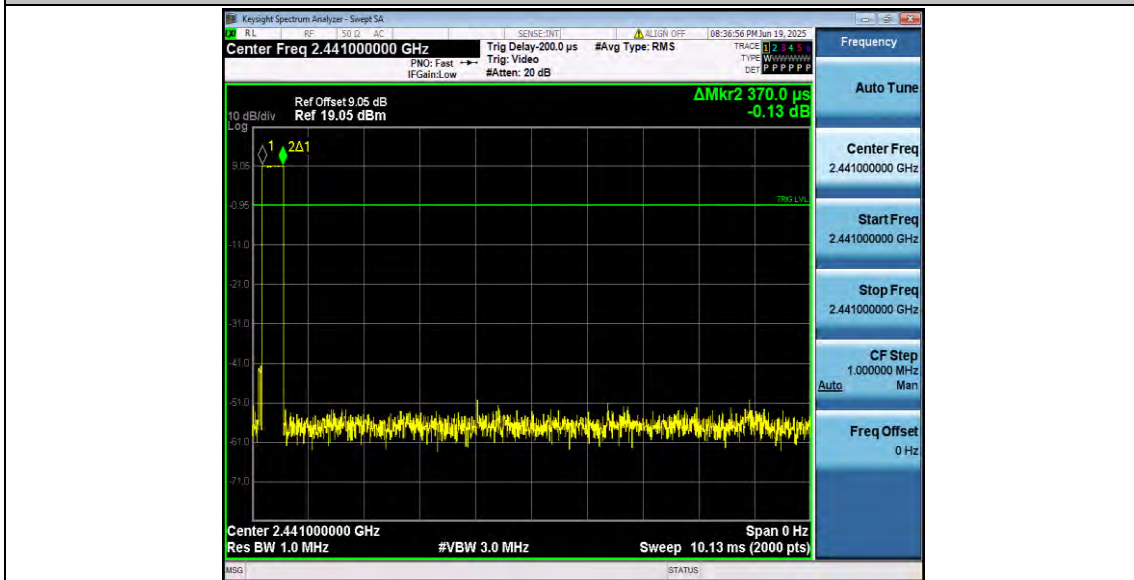


DH5_Ant1_Hop

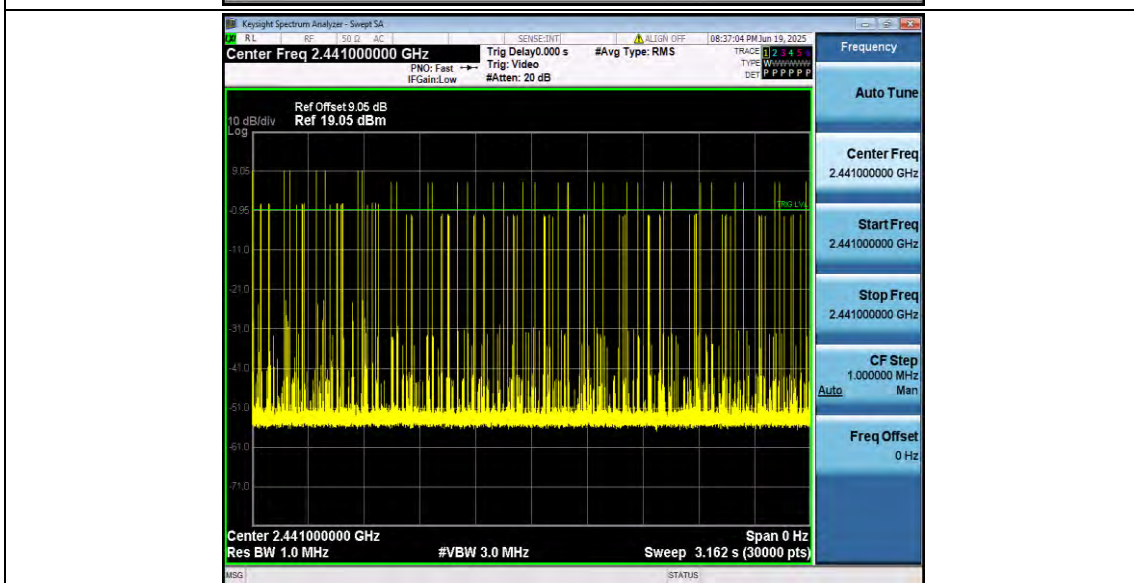


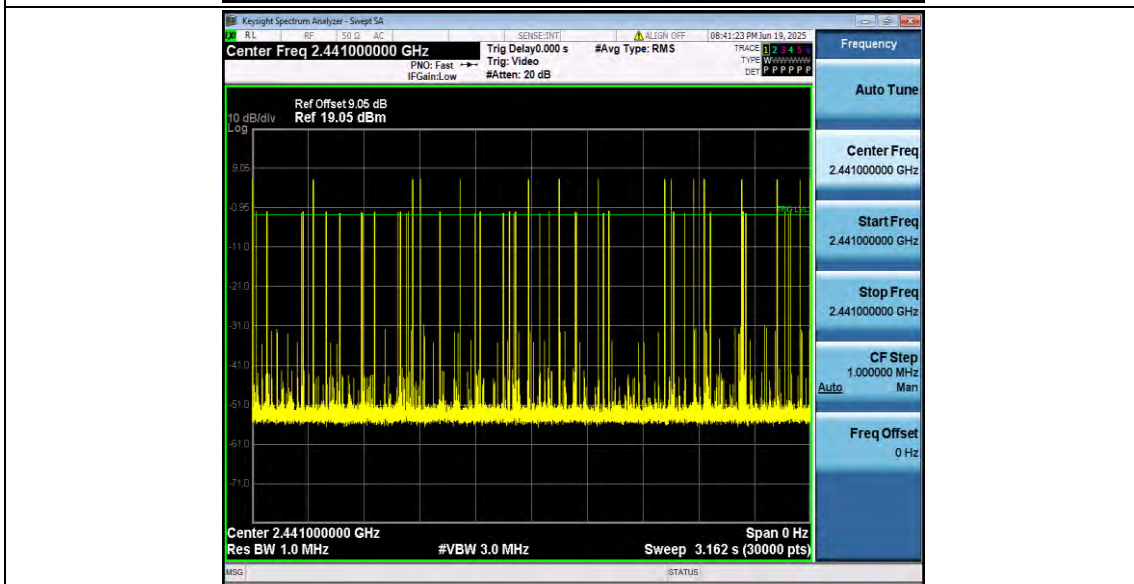


2DH1_Ant1_Hop

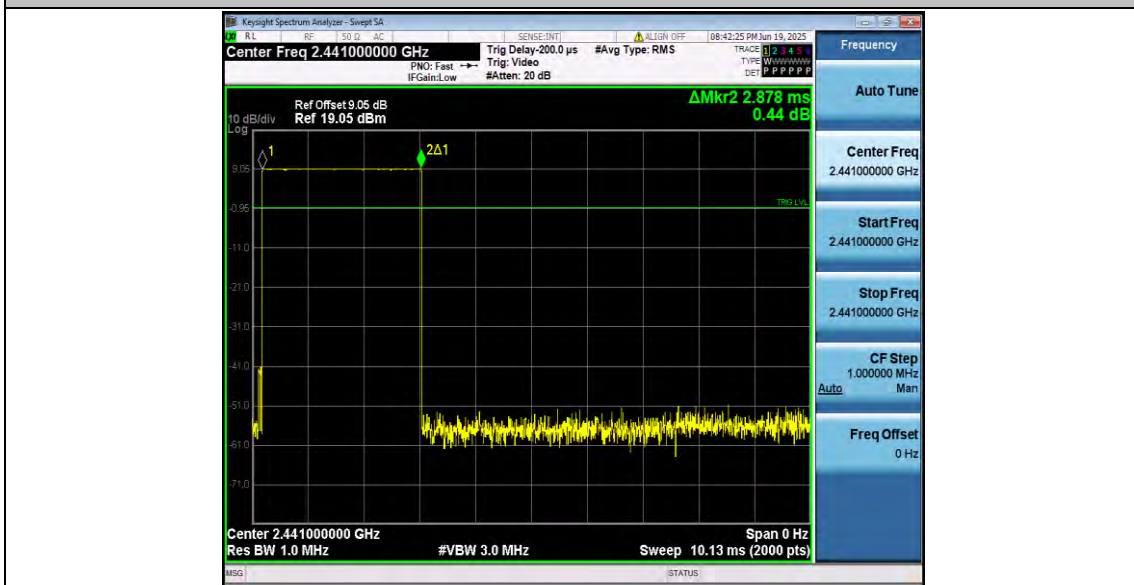


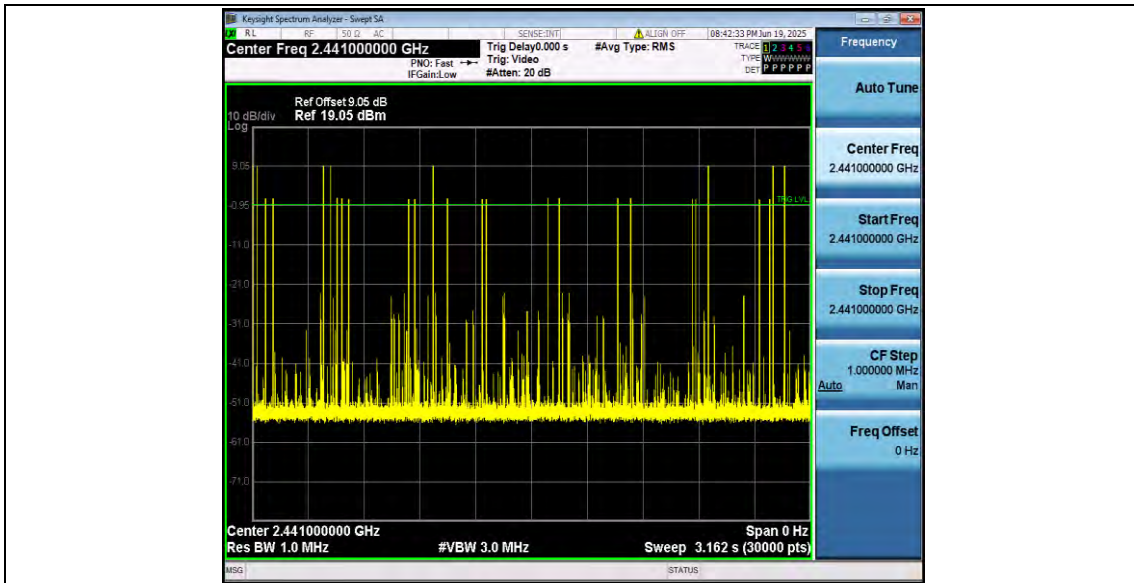
2DH3_Ant1_Hop



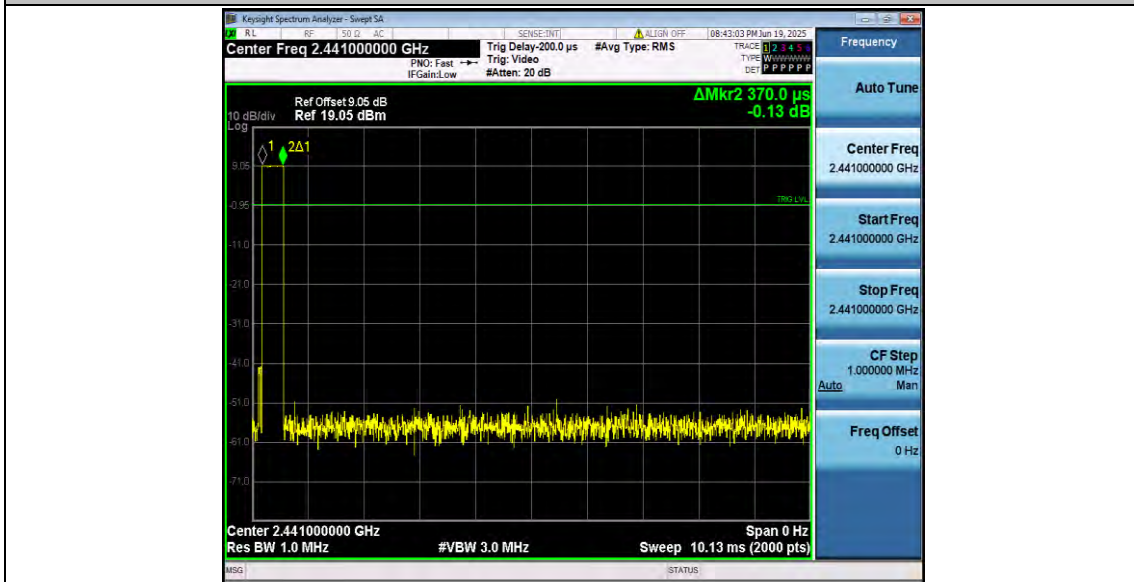


2DH5_Ant1_Hop

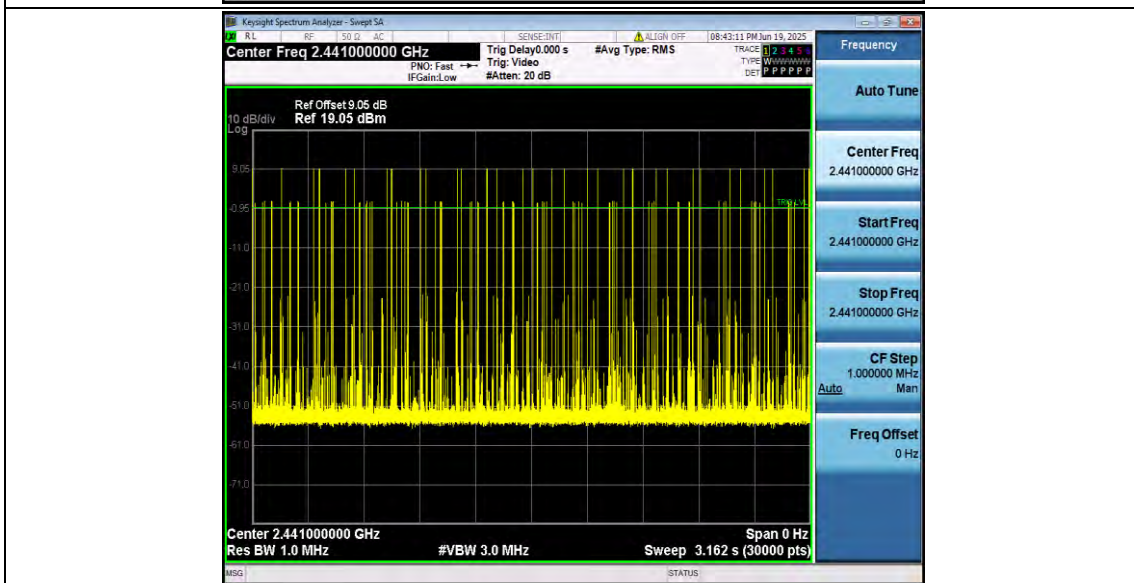


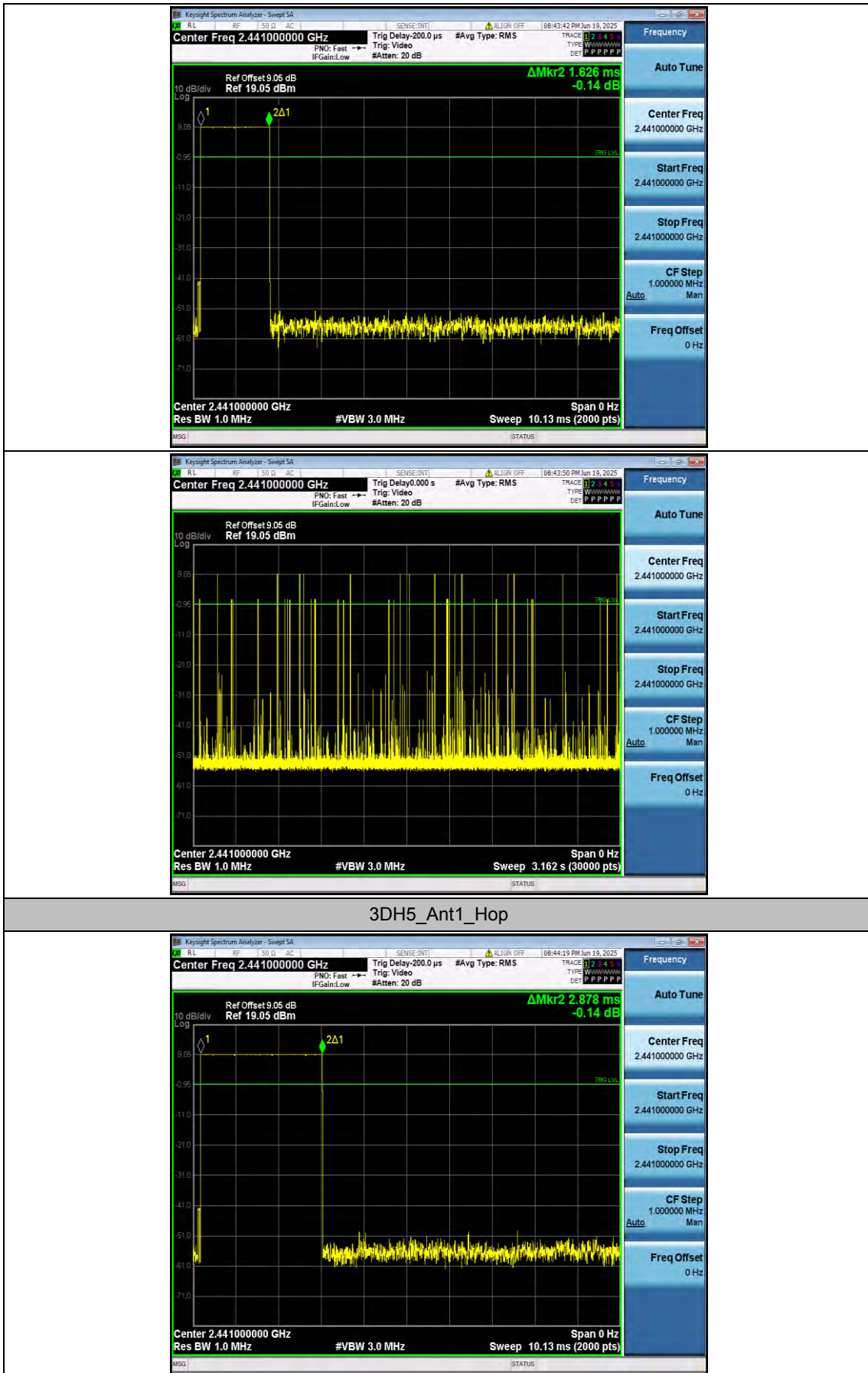


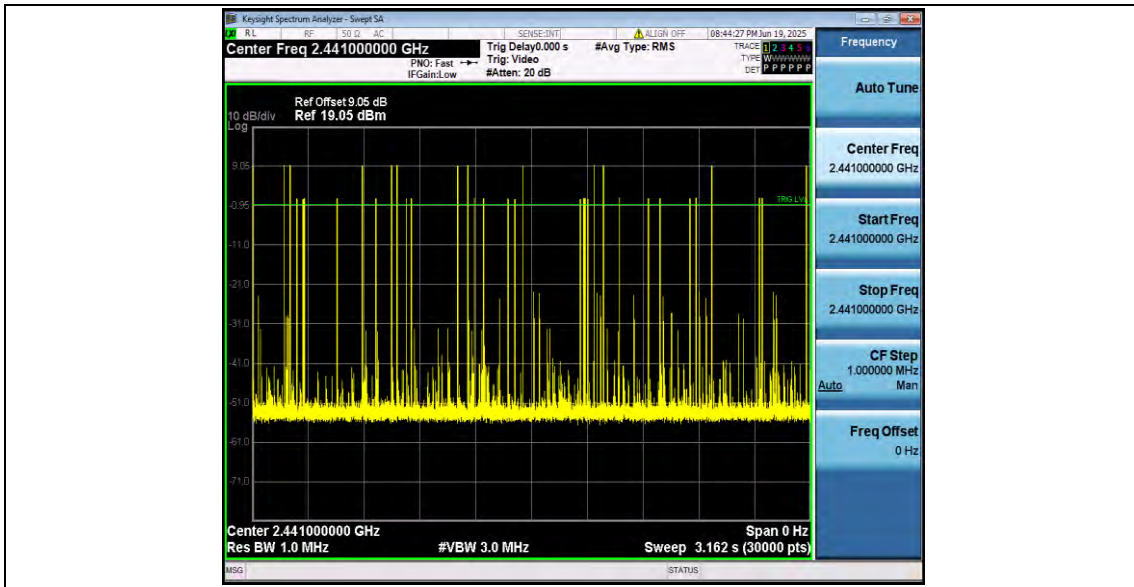
3DH1_Ant1_Hop



3DH3_Ant1_Hop





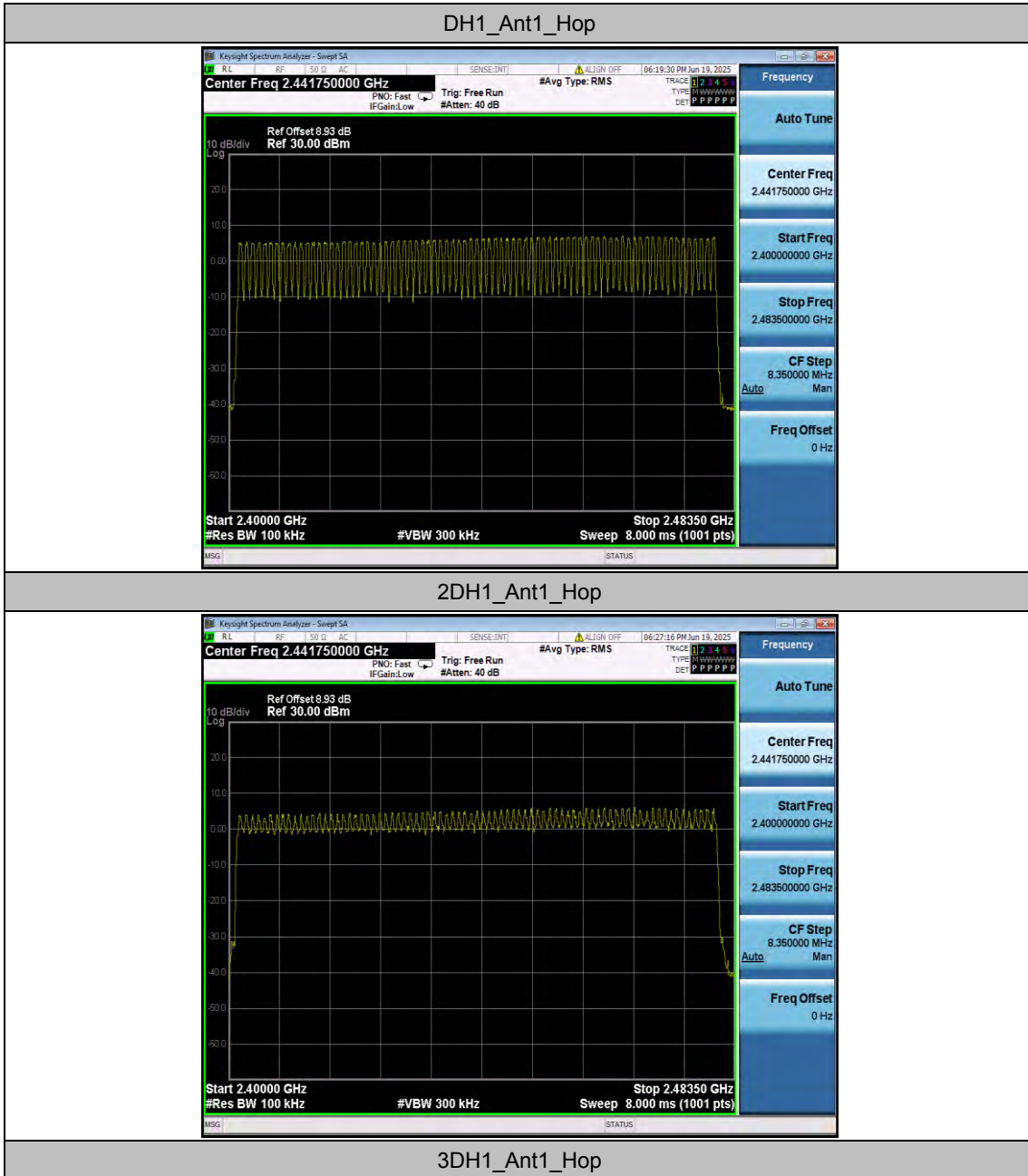


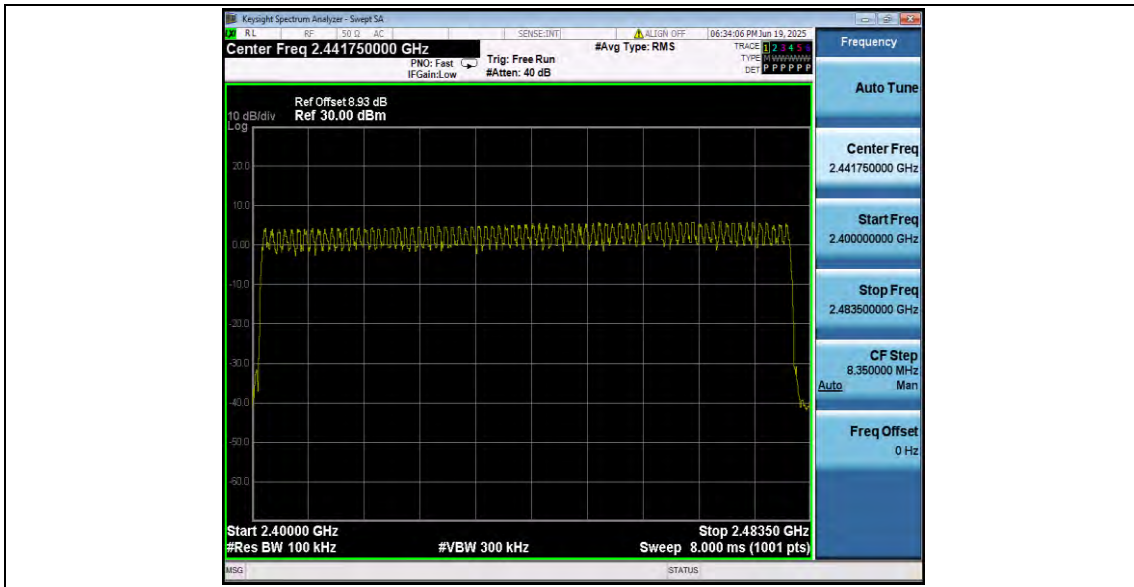
Appendix A.6: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs



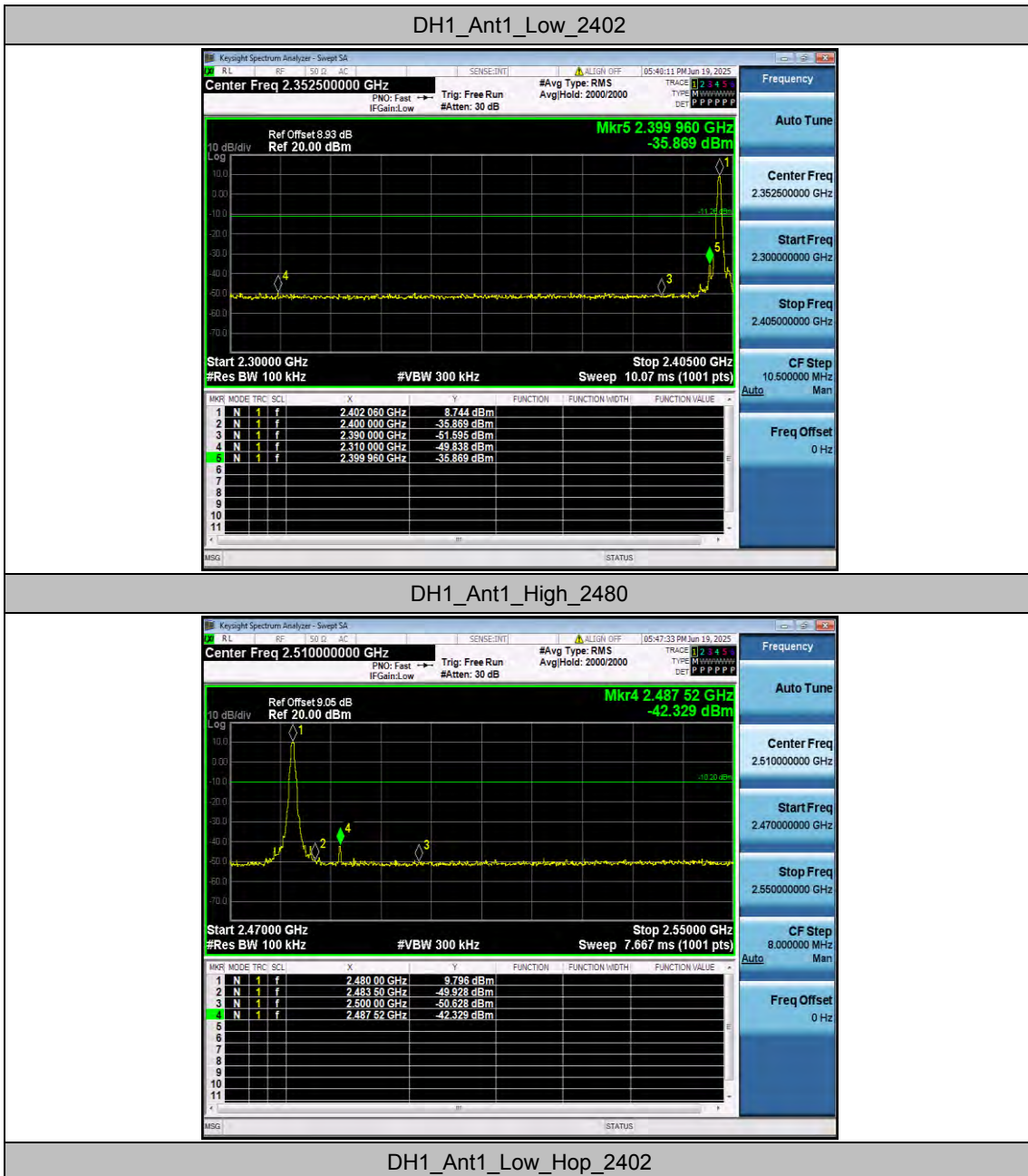


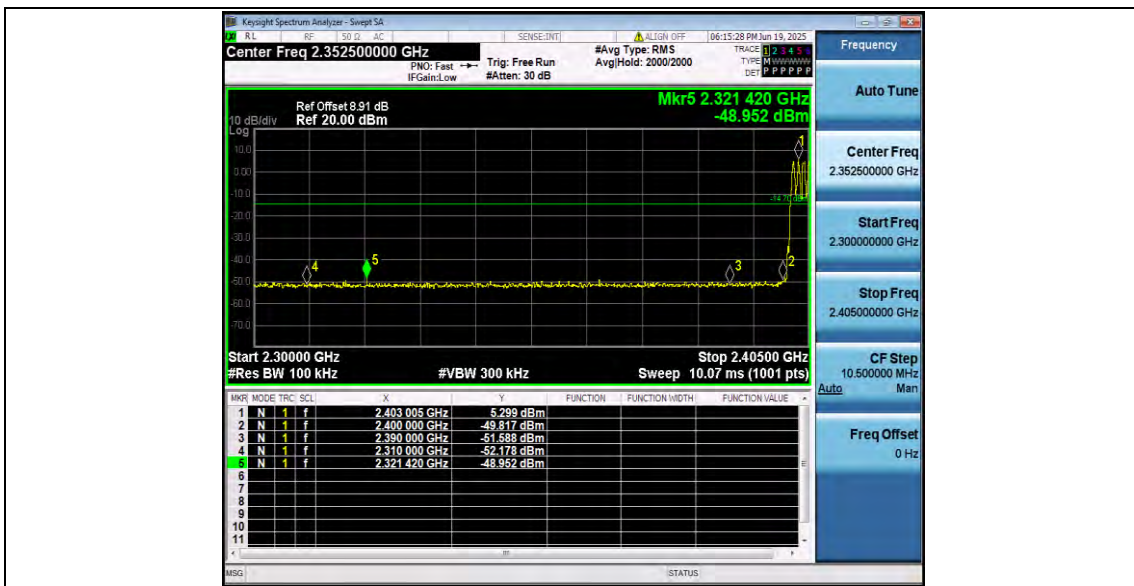
Appendix A.7: Band edge measurements

Test Result

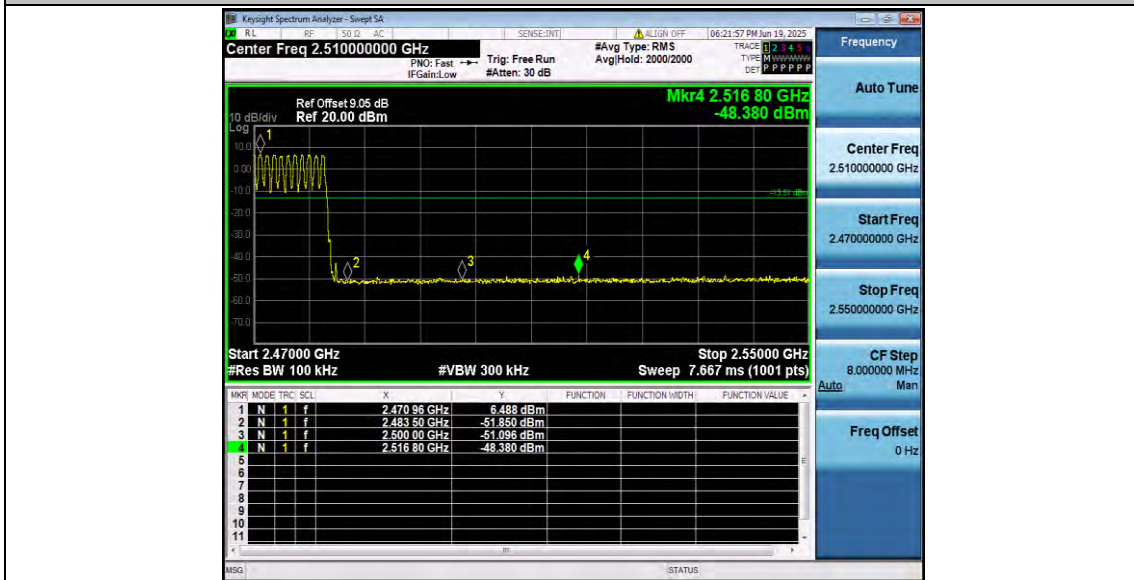
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	8.74	-35.87	≤-11.26	PASS
		High	2480	9.80	-42.33	≤-10.2	PASS
		Low	Hop_2402	5.30	-48.95	≤-14.7	PASS
		High	Hop_2480	6.49	-48.38	≤-13.51	PASS
2DH1	Ant1	Low	2402	4.48	-41.57	≤-15.52	PASS
		High	2480	5.66	-41.69	≤-14.34	PASS
		Low	Hop_2402	3.69	-45.88	≤-16.31	PASS
		High	Hop_2480	5.78	-48.89	≤-14.22	PASS
3DH1	Ant1	Low	2402	4.45	-39.86	≤-15.56	PASS
		High	2480	5.68	-40.65	≤-14.32	PASS
		Low	Hop_2402	3.99	-41.34	≤-16.01	PASS
		High	Hop_2480	5.43	-43.51	≤-14.57	PASS

Test Graphs

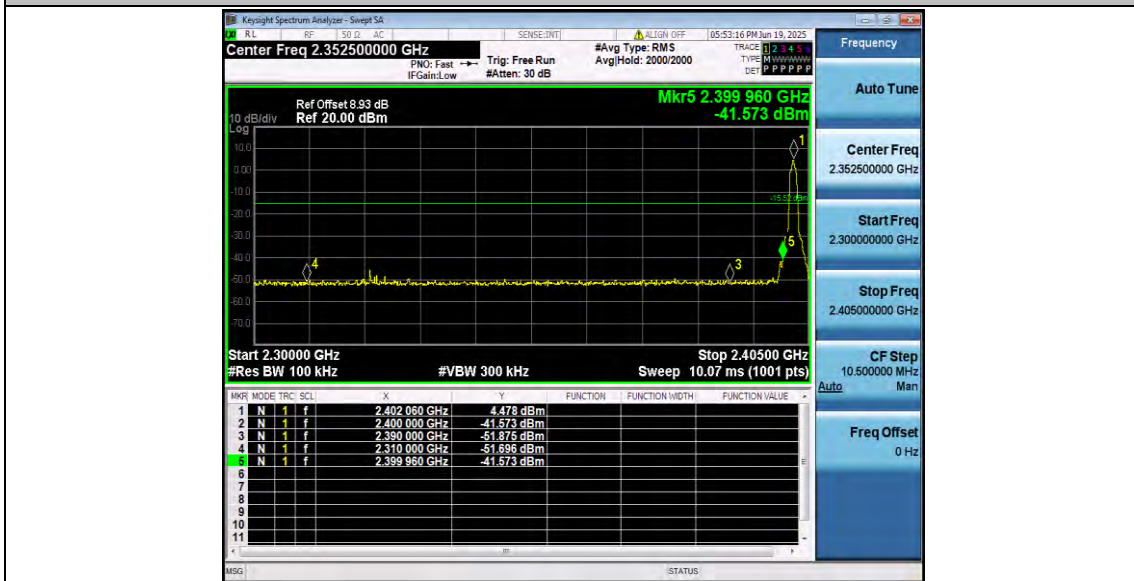




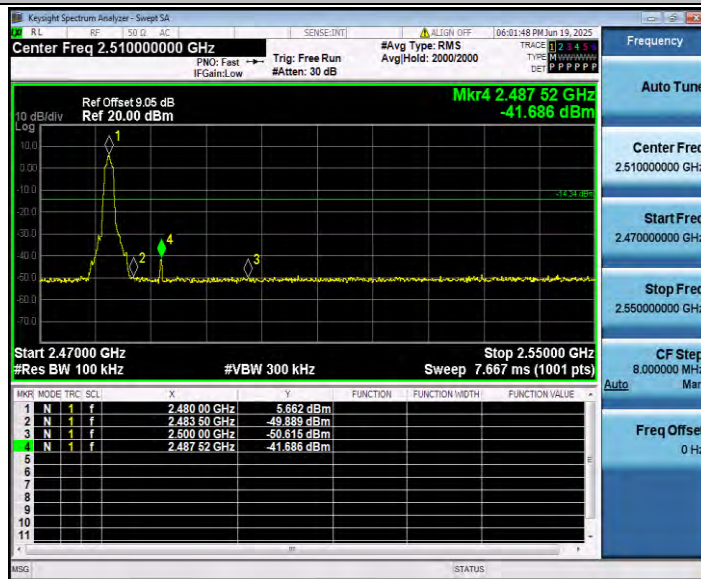
DH1_Ant1_High_Hop_2480



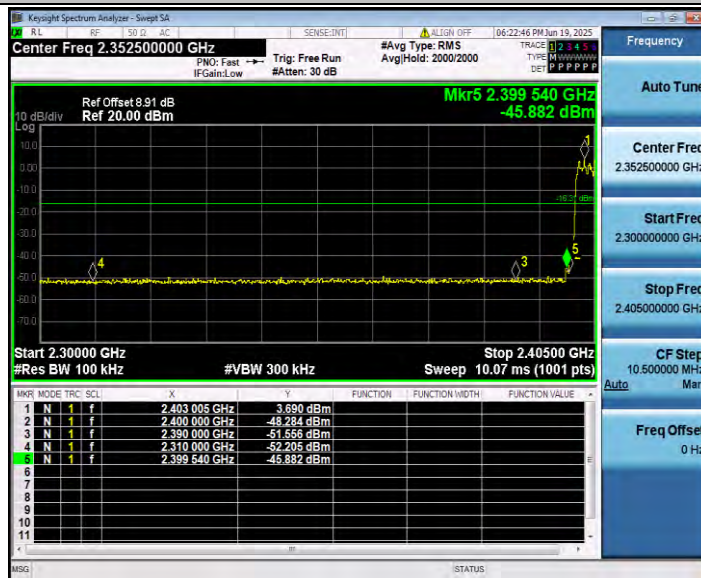
2DH1_Ant1_Low_2402



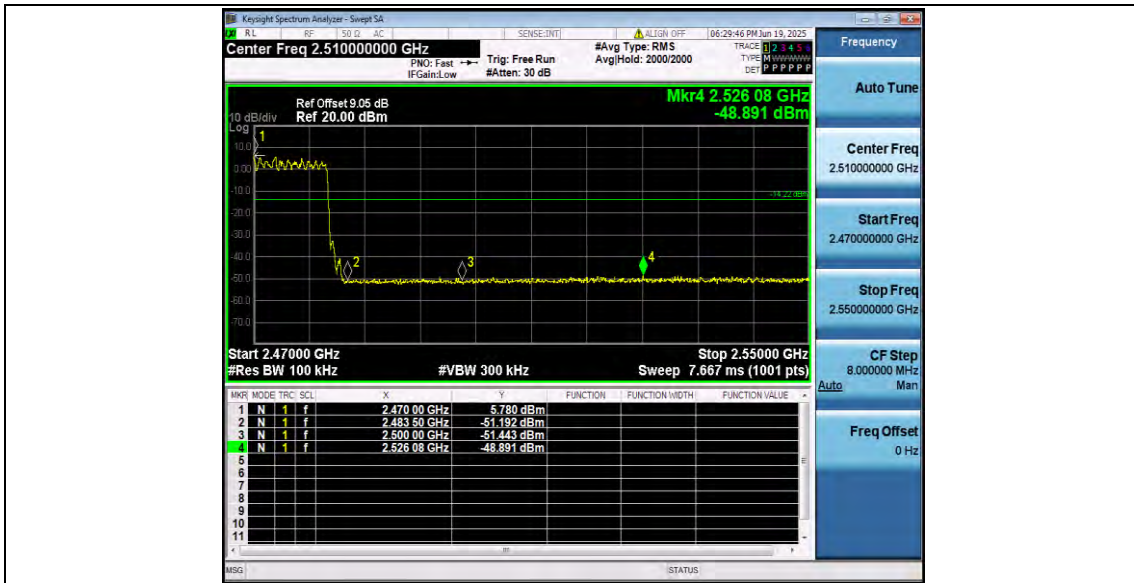
2DH1_Ant1_High_2480



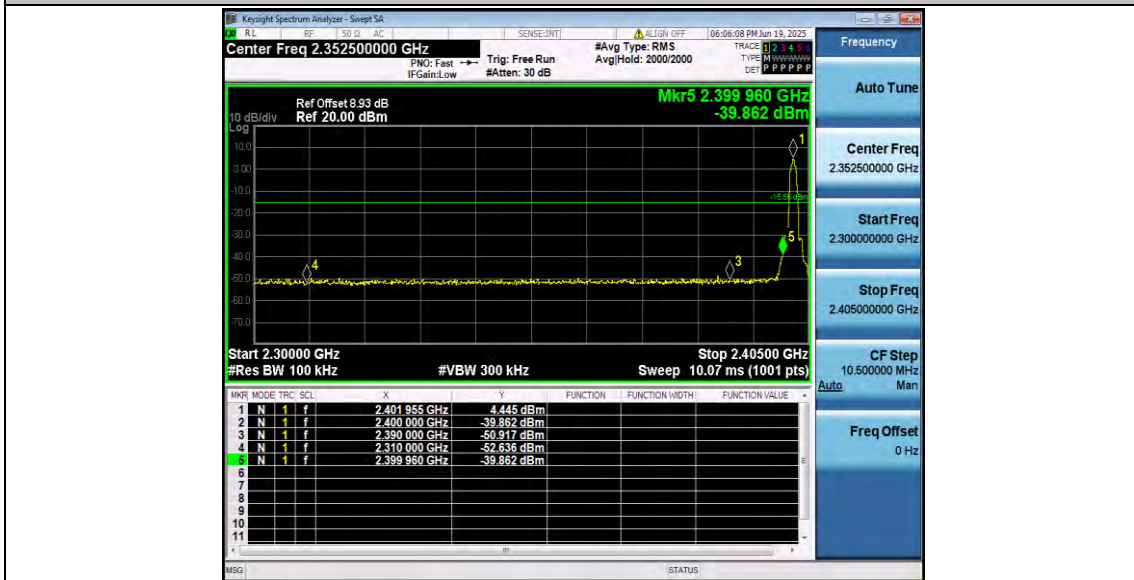
2DH1_Ant1_Low_Hop_2402



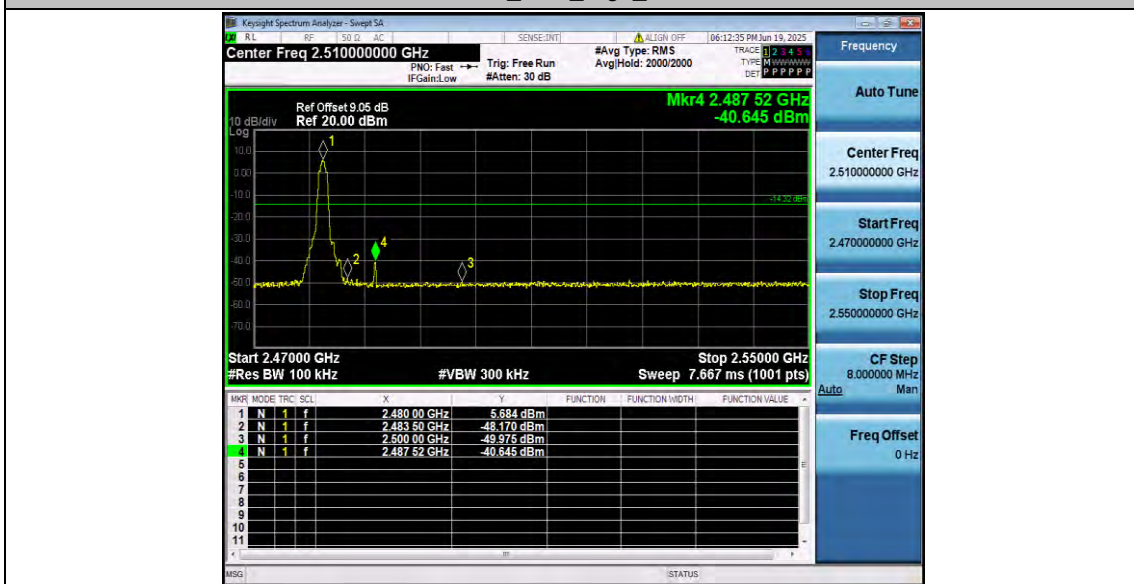
2DH1_Ant1_High_Hop_2480



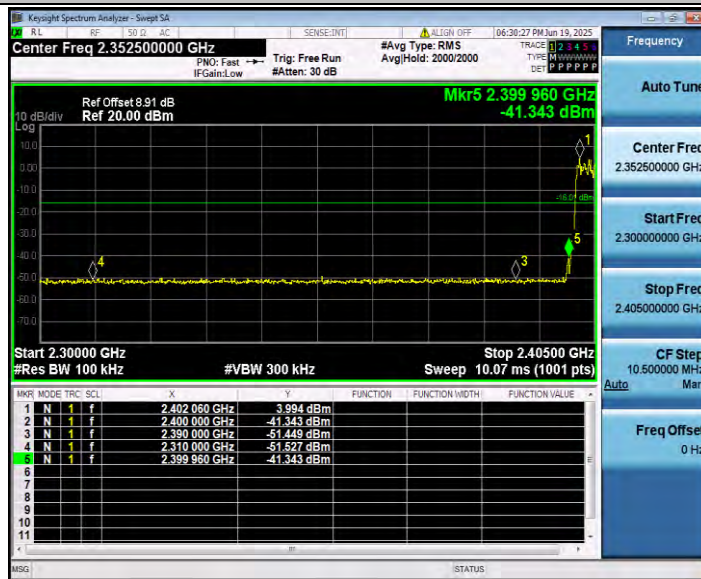
3DH1_Ant1_Low_2402



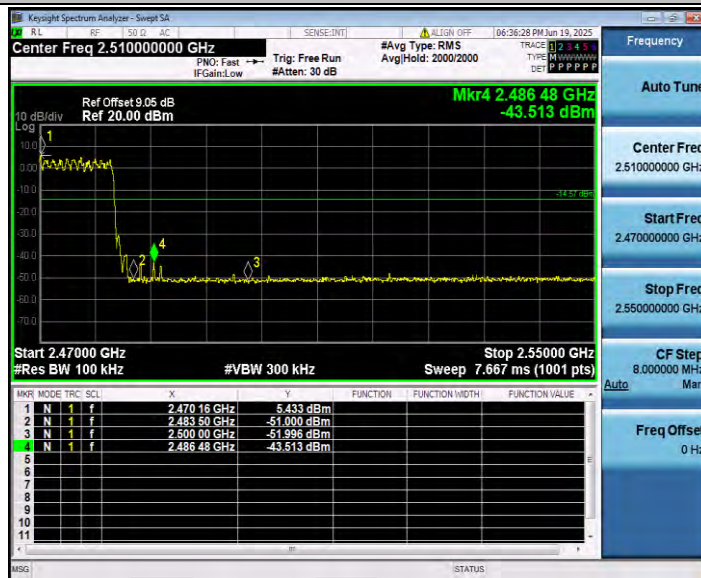
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

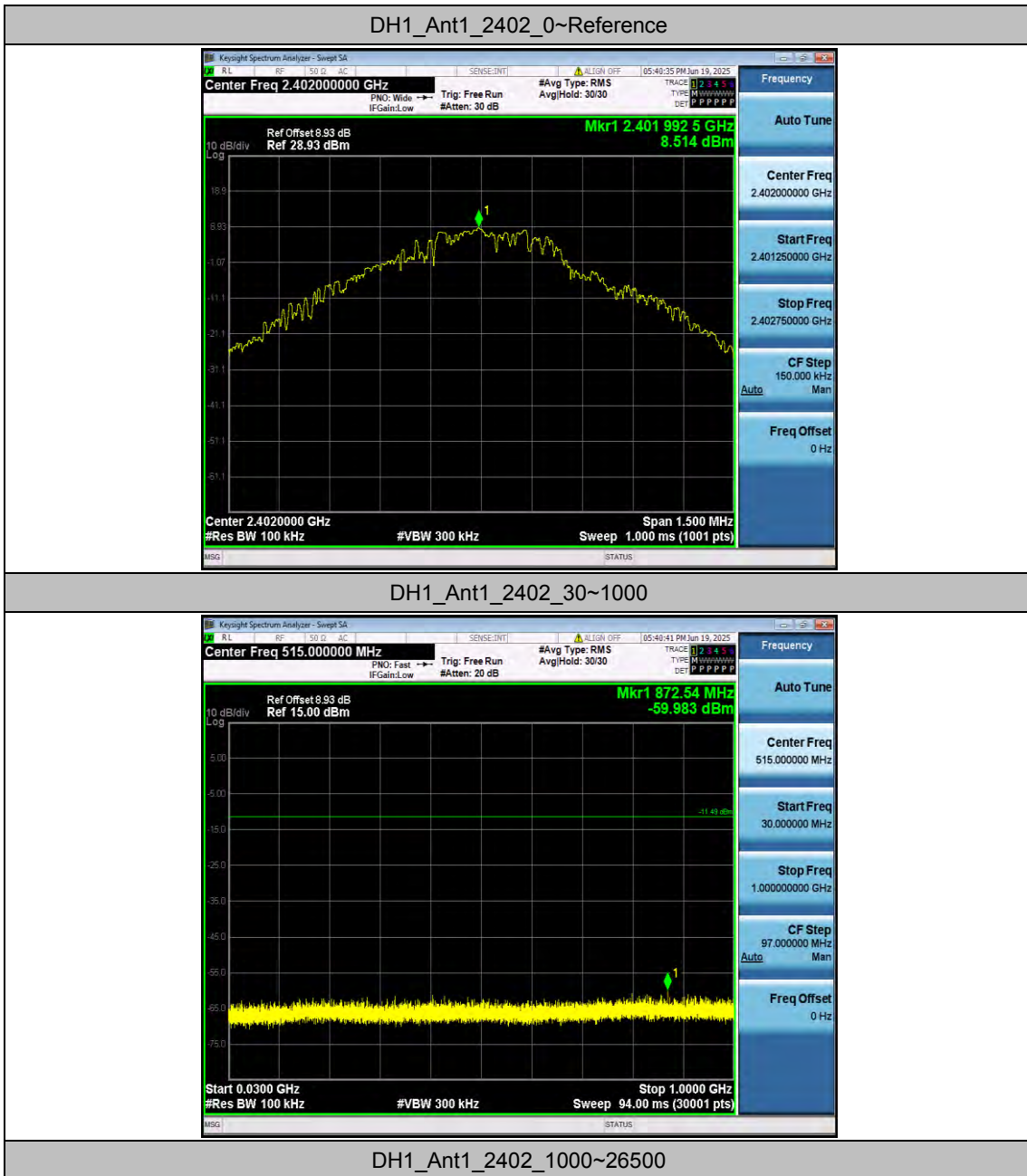


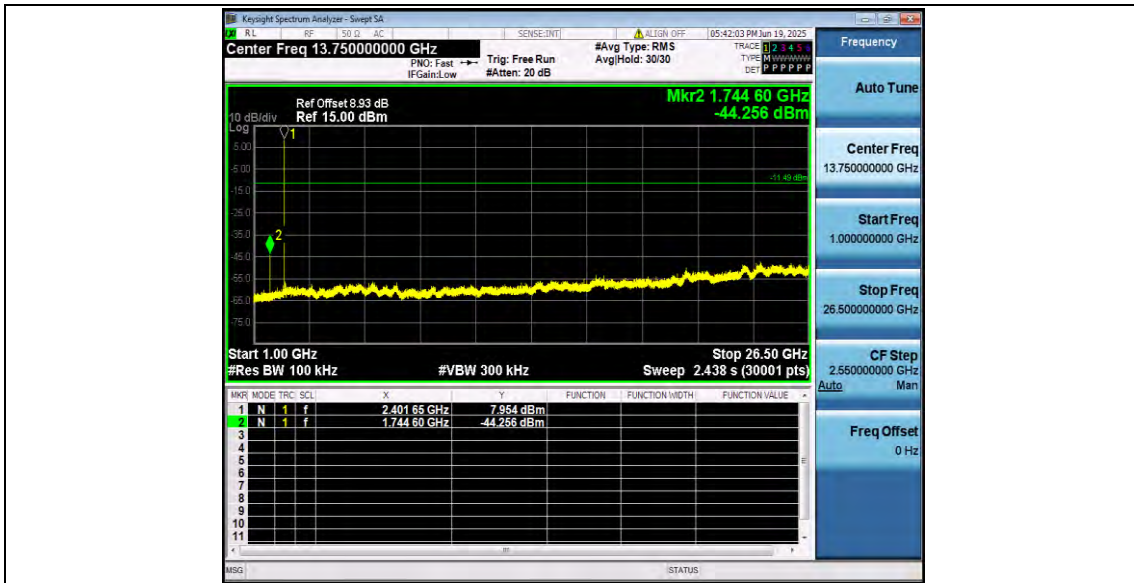
Appendix A.8: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	8.51	8.51	---	PASS
			30~1000	8.51	-59.98	≤-11.49	PASS
			1000~26500	8.51	-44.26	≤-11.49	PASS
		2441	Reference	5.74	5.74	---	PASS
			30~1000	5.74	-60.51	≤-14.26	PASS
			1000~26500	5.74	-47.02	≤-14.26	PASS
		2480	Reference	9.47	9.47	---	PASS
			30~1000	9.47	-60.38	≤-10.53	PASS
			1000~26500	9.47	-47.45	≤-10.53	PASS
2DH1	Ant1	2402	Reference	4.14	4.14	---	PASS
			30~1000	4.14	-60.62	≤-15.86	PASS
			1000~26500	4.14	-47.9	≤-15.86	PASS
		2441	Reference	5.03	5.03	---	PASS
			30~1000	5.03	-60.63	≤-14.97	PASS
			1000~26500	5.03	-47.49	≤-14.97	PASS
		2480	Reference	5.30	5.30	---	PASS
			30~1000	5.30	-60.86	≤-14.7	PASS
			1000~26500	5.30	-47.67	≤-14.7	PASS
3DH1	Ant1	2402	Reference	4.15	4.15	---	PASS
			30~1000	4.15	-60.65	≤-15.85	PASS
			1000~26500	4.15	-48.12	≤-15.85	PASS
		2441	Reference	4.73	4.73	---	PASS
			30~1000	4.73	-60.07	≤-15.27	PASS
			1000~26500	4.73	-47.89	≤-15.27	PASS
		2480	Reference	5.36	5.36	---	PASS
			30~1000	5.36	-60.44	≤-14.64	PASS
			1000~26500	5.36	-47.31	≤-14.64	PASS

Test Graphs

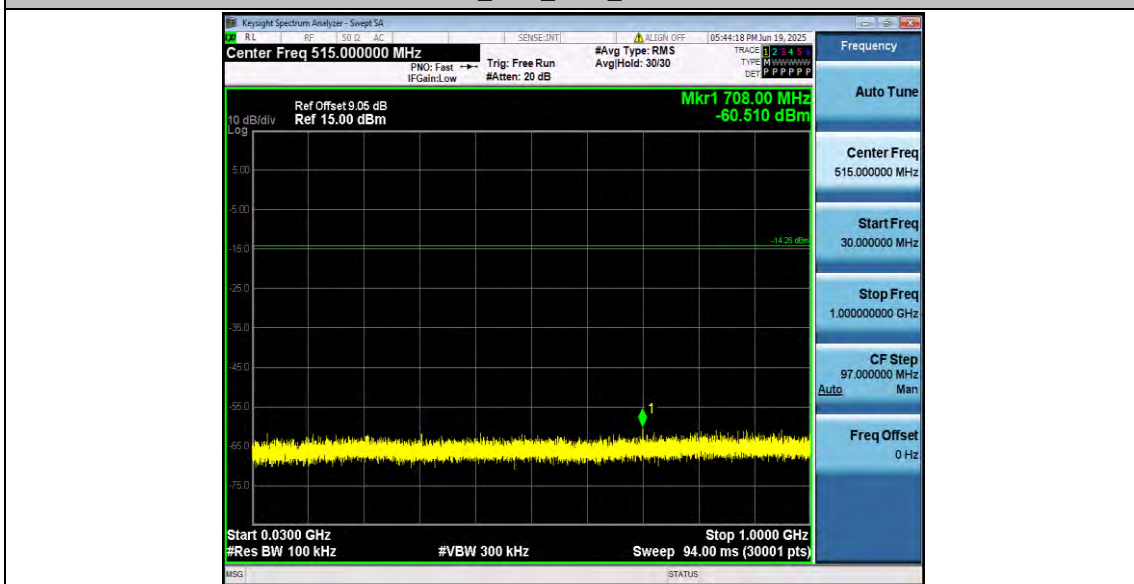




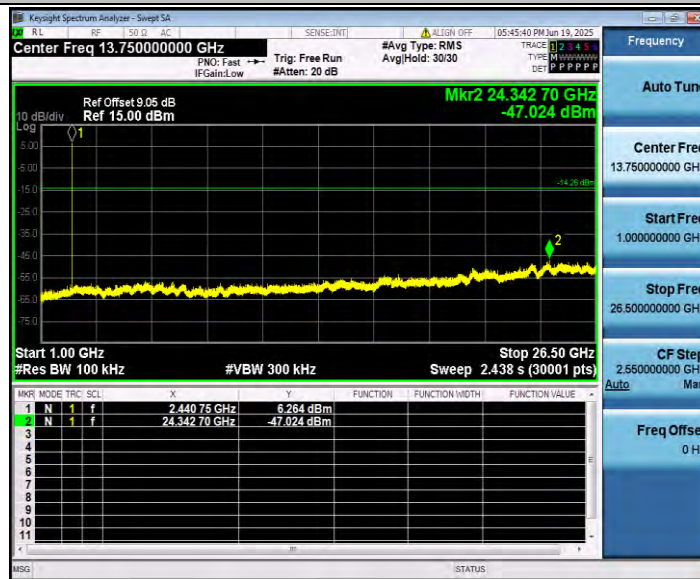
DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



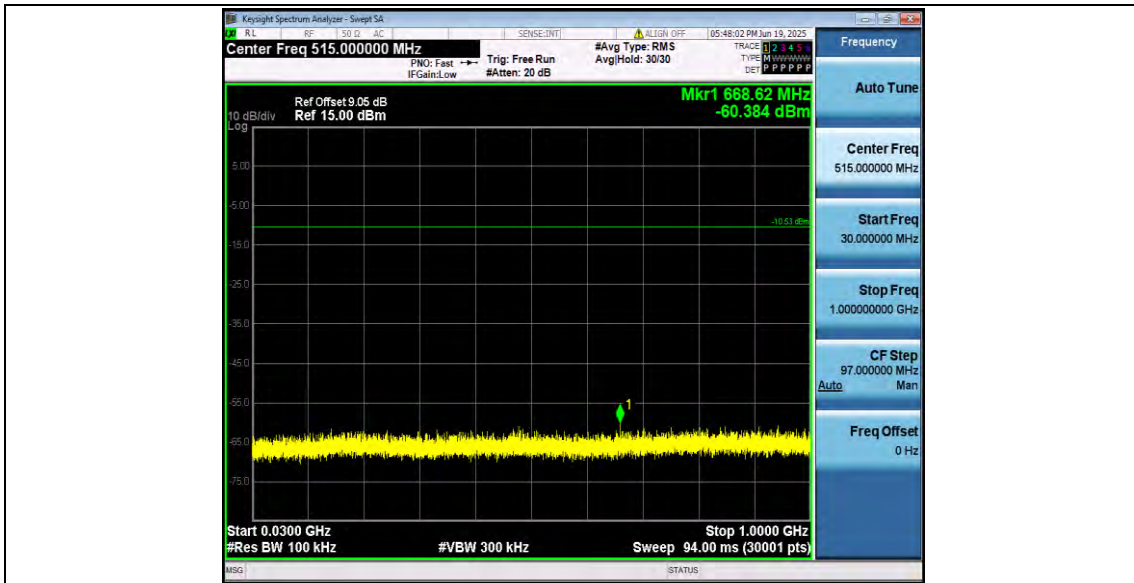
DH1_Ant1_2441_1000~26500



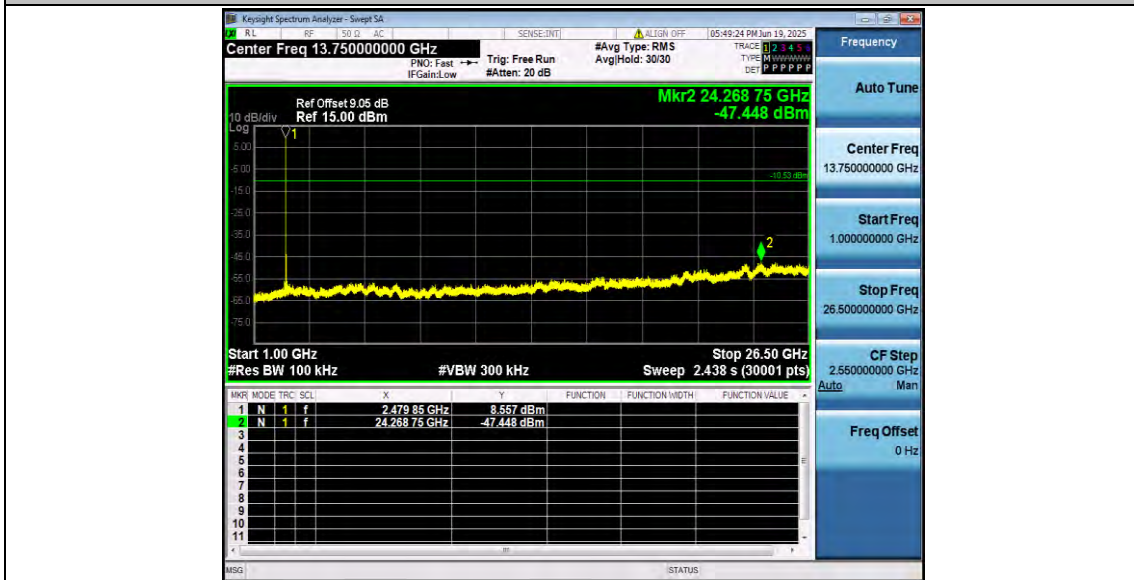
DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



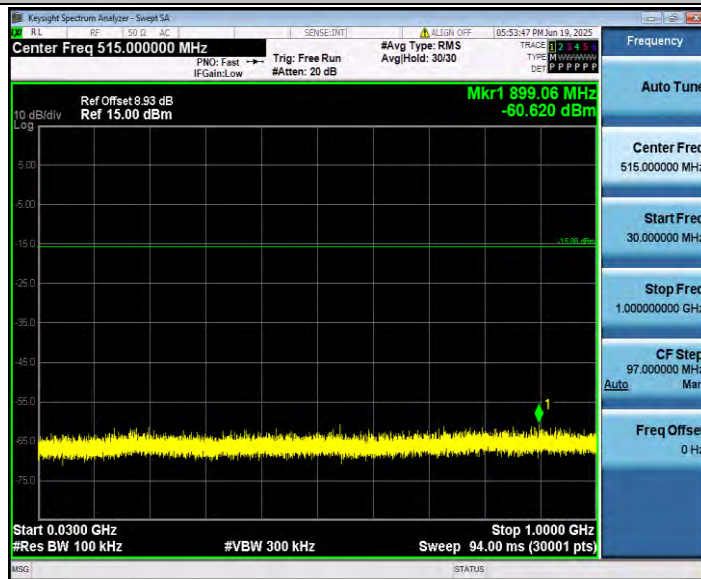
DH1_Ant1_2480_1000~26500



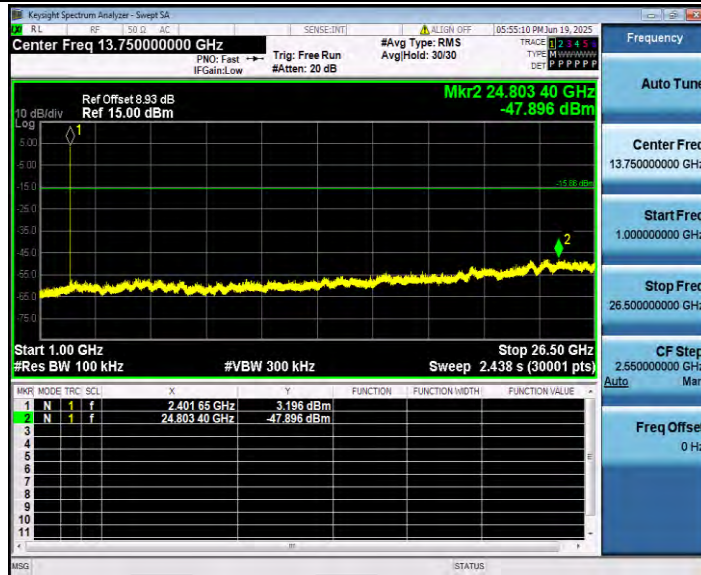
2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000



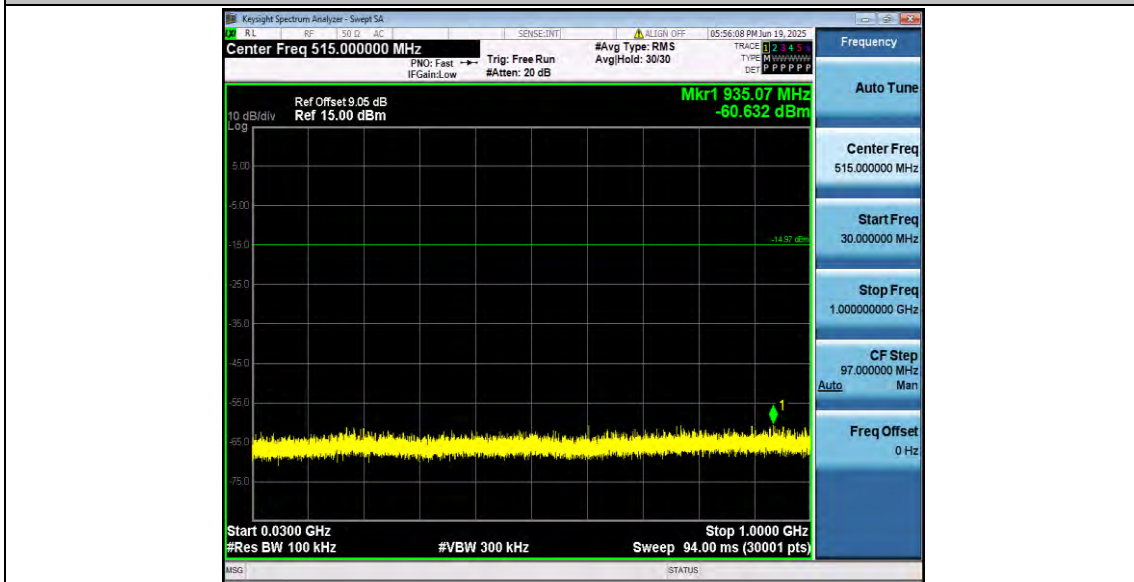
2DH1_Ant1_2402_1000~26500



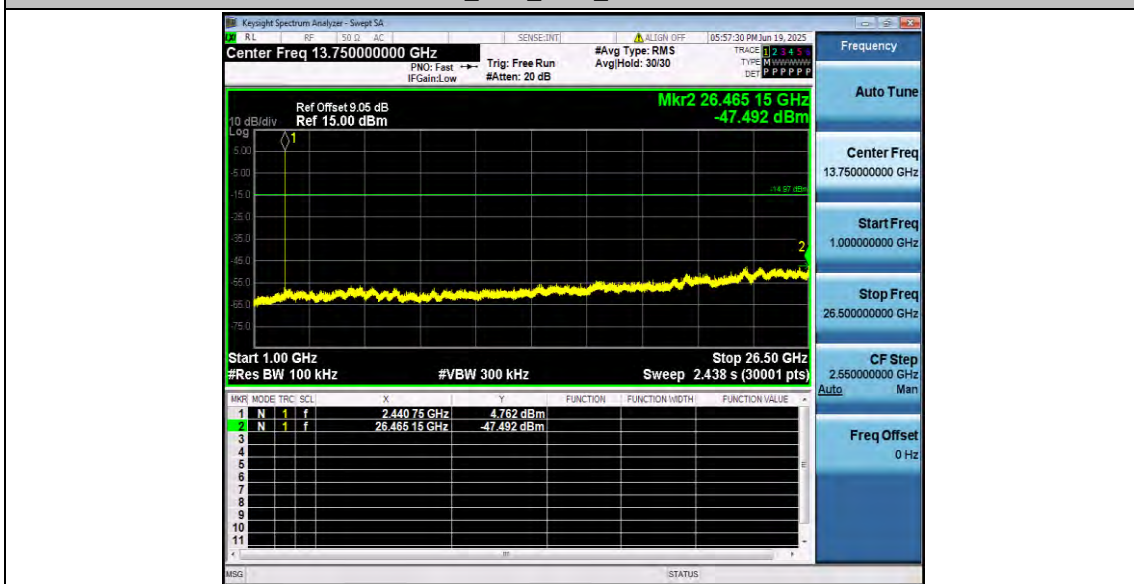
2DH1_Ant1_2441_0~Reference



2DH1_Ant1_2441_30~100



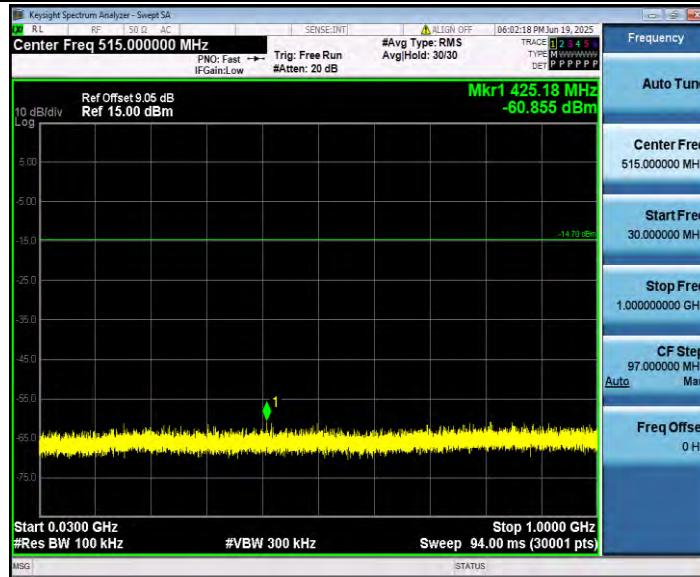
2DH1_Ant1_2441_1000~26500



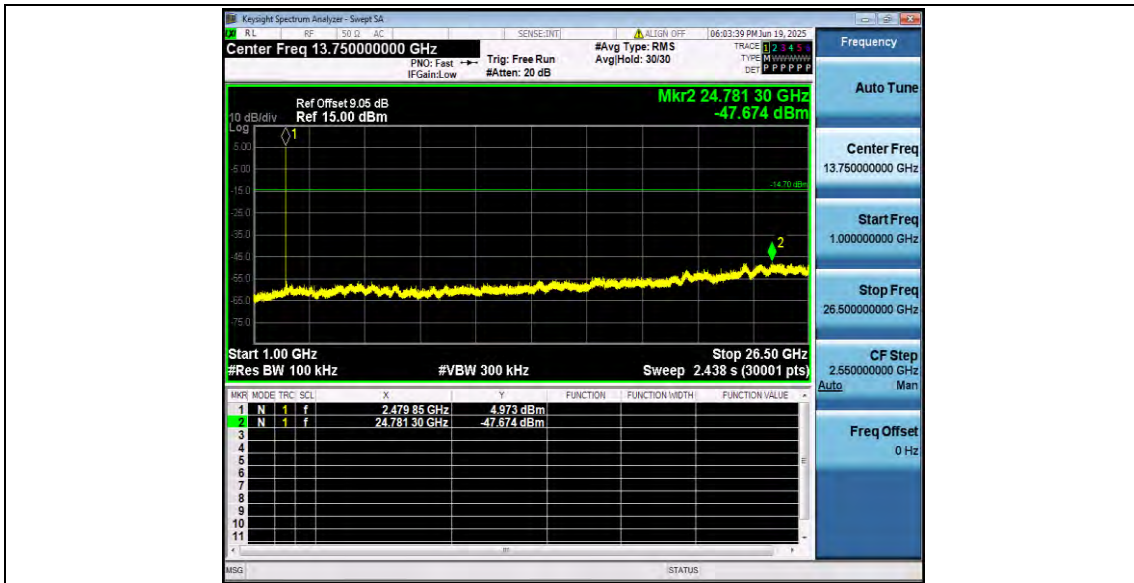
2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



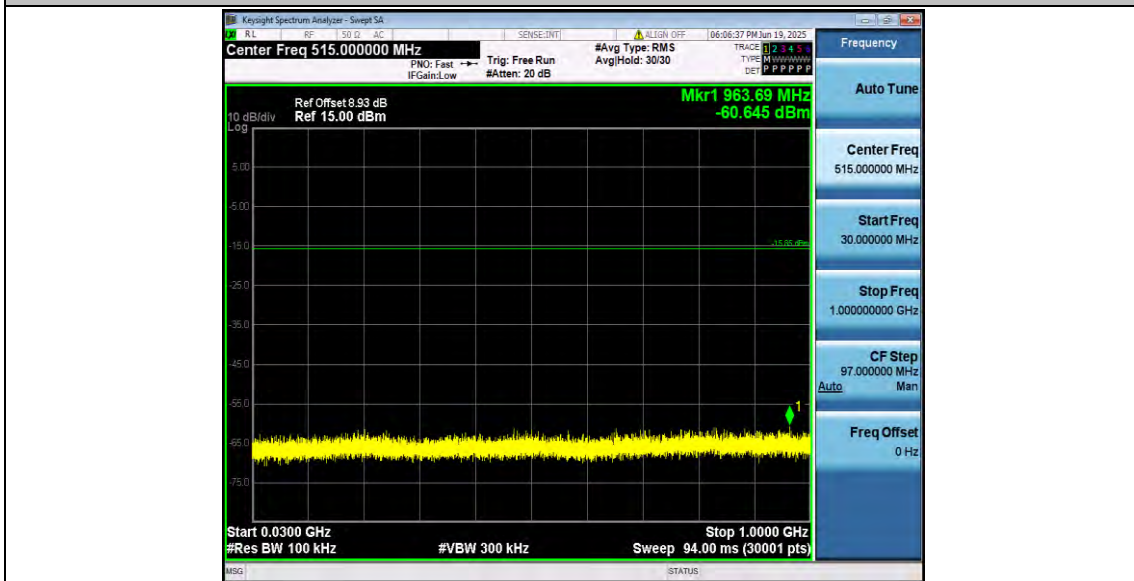
2DH1_Ant1_2480_1000~26500



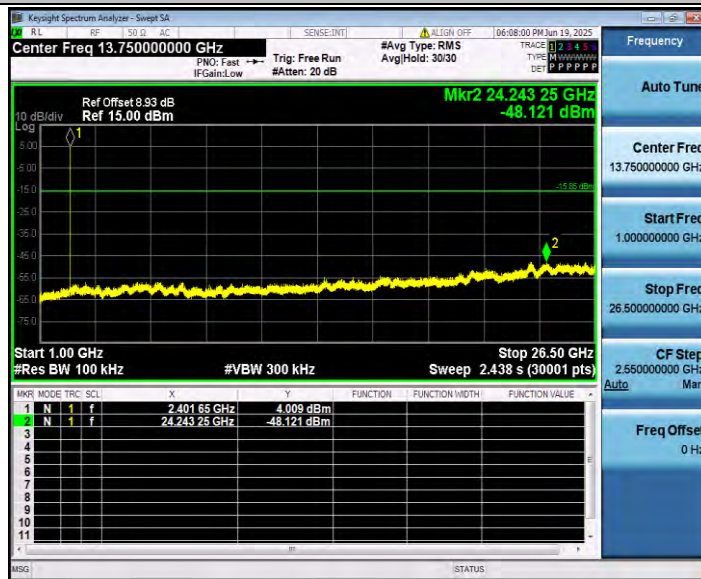
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



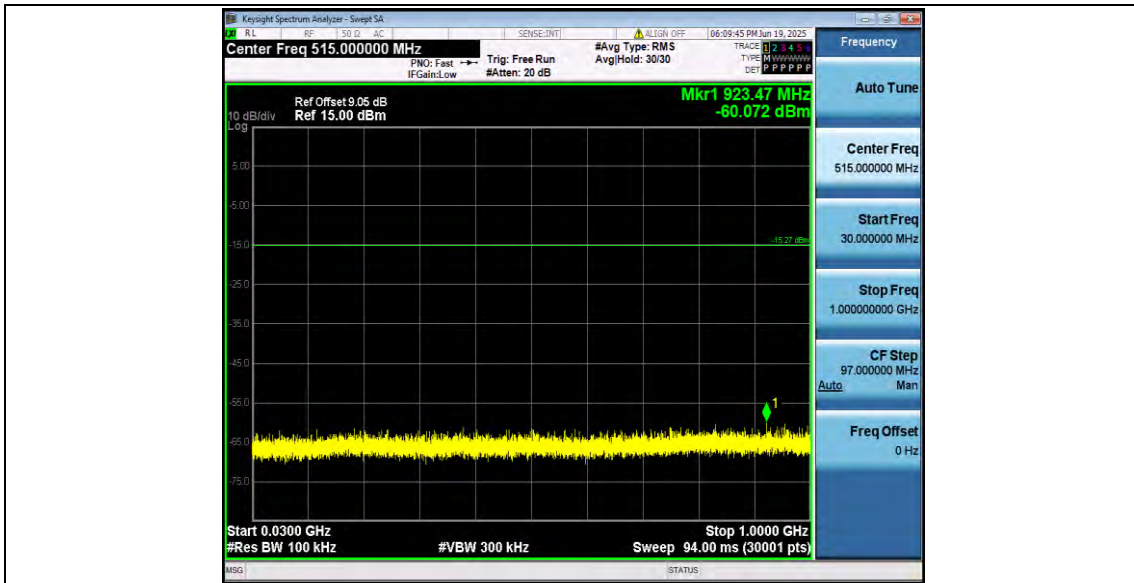
3DH1_Ant1_2402_1000~26500



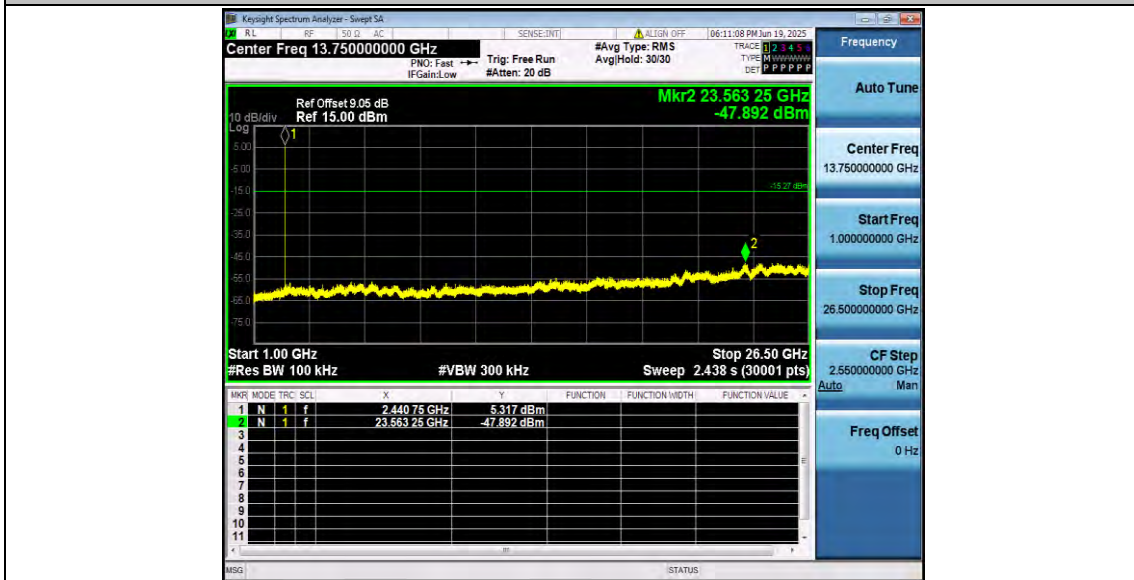
3DH1_Ant1_2441_0~Reference



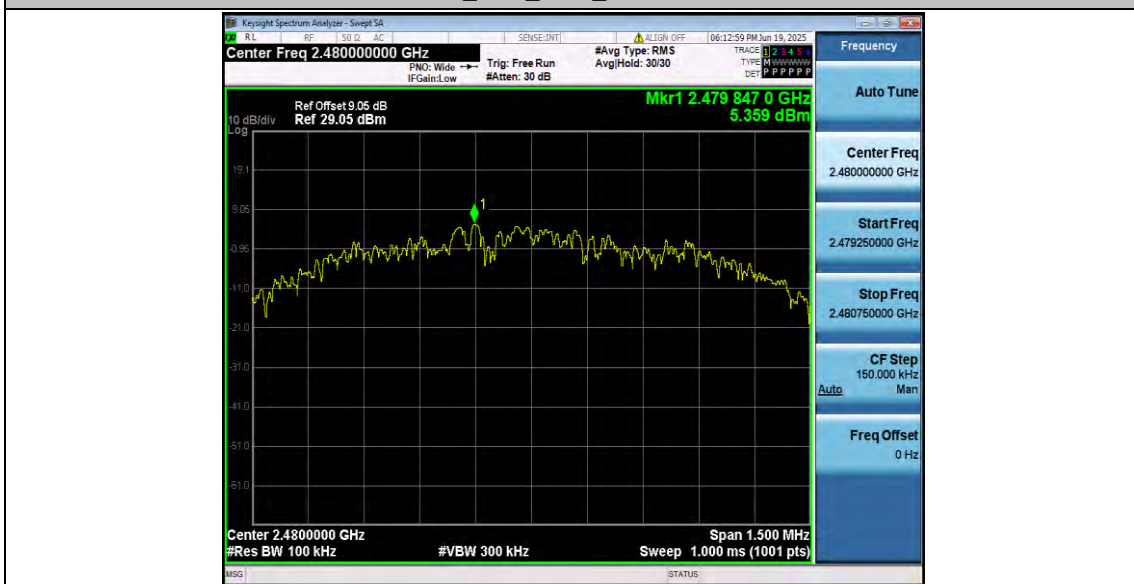
3DH1_Ant1_2441_30~1000



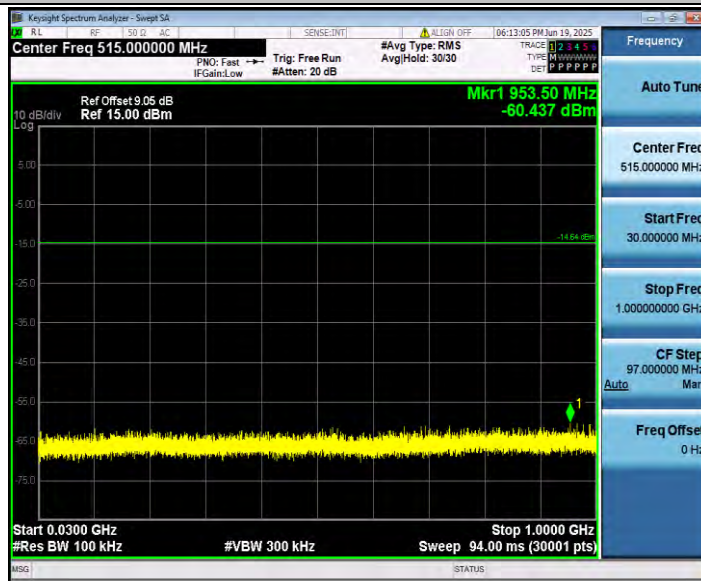
3DH1_Ant1_2441_1000~26500



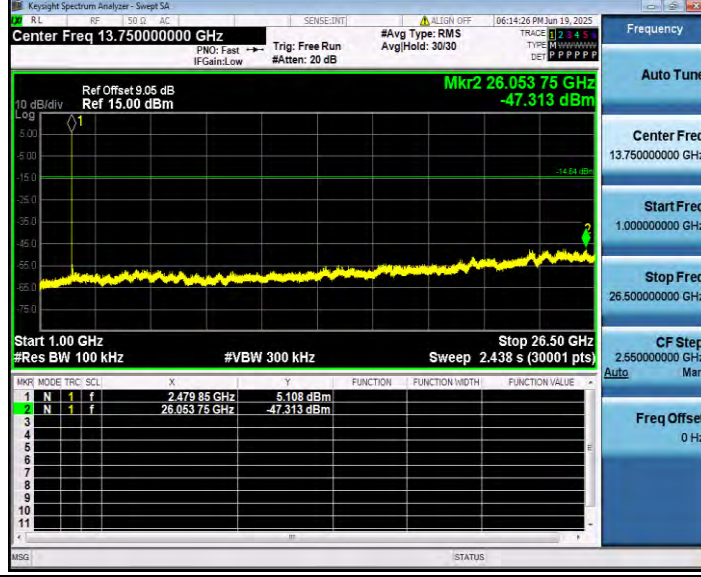
3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500



Appendix A.9: Emissions in Restricted Bands

Test Result

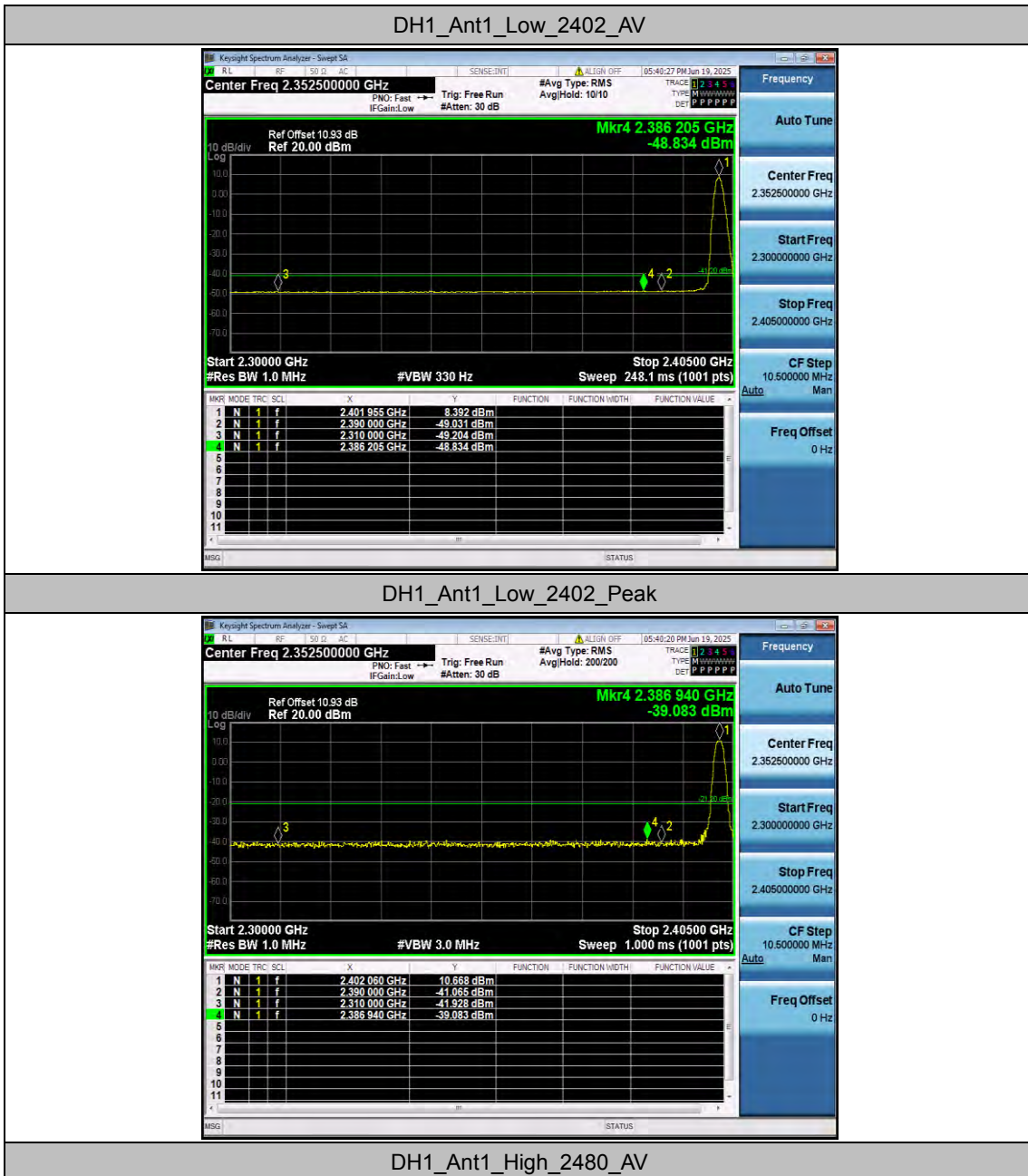
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.2	≤-41.20	46.00	≤54	PASS
				AV	2386.205	-48.83	≤-41.20	46.37	≤54	PASS
				AV	2390.000	-49.03	≤-41.20	46.17	≤54	PASS
				Peak	2310.000	-41.93	≤-21.20	53.27	≤74	PASS
				Peak	2386.940	-39.08	≤-21.20	56.12	≤74	PASS
				Peak	2390.000	-41.07	≤-21.20	54.13	≤74	PASS
		High	2480	AV	2483.500	-46.89	≤-41.20	48.31	≤54	PASS
				AV	2483.520	-46.89	≤-41.20	48.31	≤54	PASS
				AV	2500.000	-48.72	≤-41.20	46.48	≤54	PASS
				Peak	2483.500	-37.54	≤-21.20	57.66	≤74	PASS
				Peak	2487.440	-37.2	≤-21.20	58.00	≤74	PASS
				Peak	2500.000	-41.58	≤-21.20	53.62	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.36	≤-41.20	45.84	≤54	PASS
				AV	2389.880	-48.86	≤-41.20	46.34	≤54	PASS
				AV	2390.000	-48.9	≤-41.20	46.30	≤54	PASS
				Peak	2310.000	-41.56	≤-21.20	53.64	≤74	PASS
				Peak	2370.035	-38.1	≤-21.20	57.10	≤74	PASS
				Peak	2390.000	-41.54	≤-21.20	53.66	≤74	PASS
		High	2480	AV	2483.500	-46.6	≤-41.20	48.60	≤54	PASS
				AV	2483.520	-46.6	≤-41.20	48.60	≤54	PASS
				AV	2500.000	-48.65	≤-41.20	46.55	≤54	PASS
				Peak	2483.500	-39.01	≤-21.20	56.19	≤74	PASS
				Peak	2483.600	-36.64	≤-21.20	58.56	≤74	PASS
				Peak	2500.000	-39.36	≤-21.20	55.84	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.21	≤-41.20	45.99	≤54	PASS
				AV	2383.580	-48.81	≤-41.20	46.39	≤54	PASS
				AV	2390.000	-49.01	≤-41.20	46.19	≤54	PASS
				Peak	2310.000	-41.58	≤-21.20	53.62	≤74	PASS
				Peak	2344.205	-39.07	≤-21.20	56.13	≤74	PASS
				Peak	2390.000	-39.18	≤-21.20	56.02	≤74	PASS
		High	2480	AV	2483.500	-46.53	≤-41.20	48.67	≤54	PASS
				AV	2483.520	-46.53	≤-41.20	48.67	≤54	PASS
				AV	2500.000	-48.67	≤-41.20	46.53	≤54	PASS
				Peak	2483.500	-38.24	≤-21.20	56.96	≤74	PASS
Peak	2487.520	-36.46	≤-21.20	58.74	≤74	PASS				

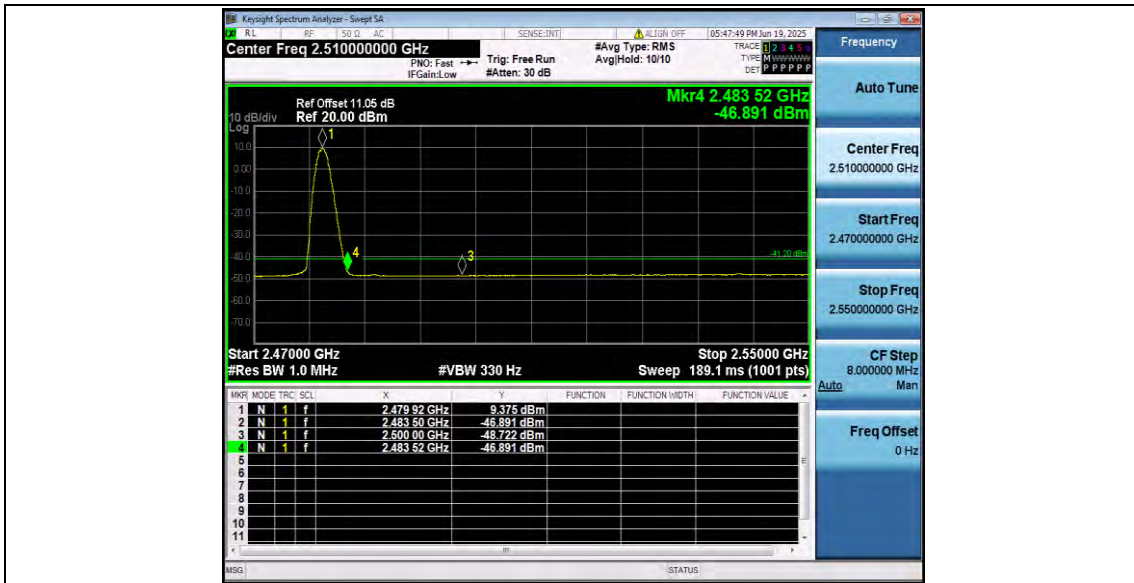
				Peak	2500.000	-40.41	≤ -21.20	54.79	≤ 74	PASS
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Note:

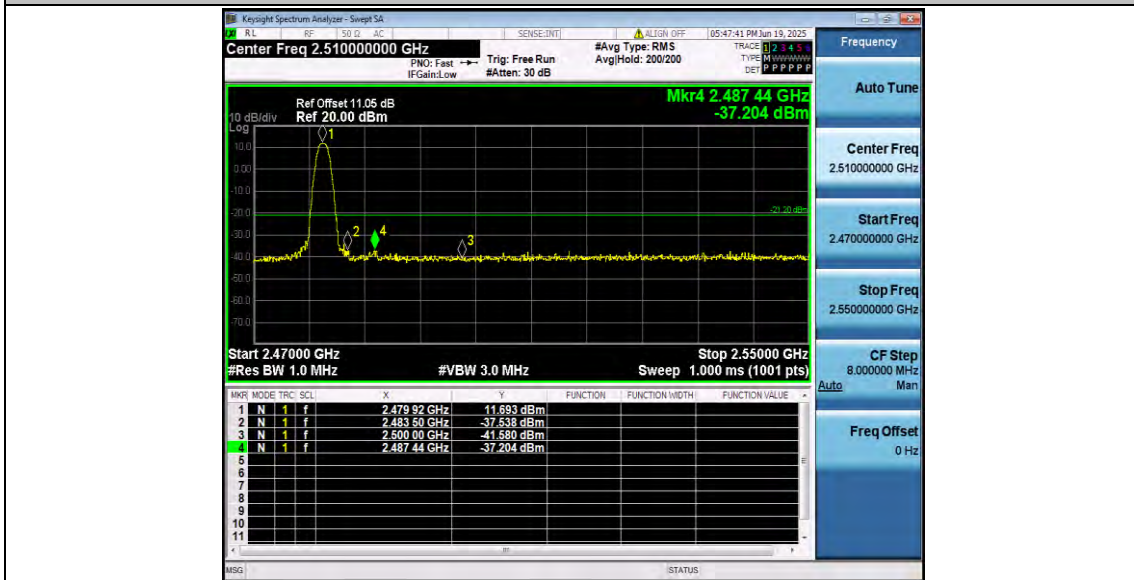
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

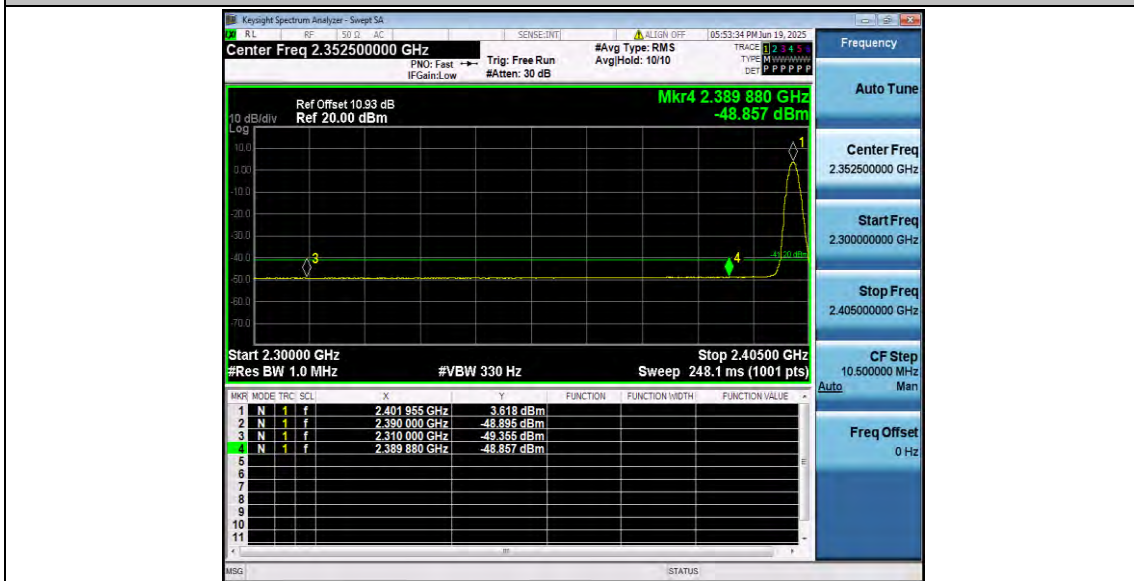




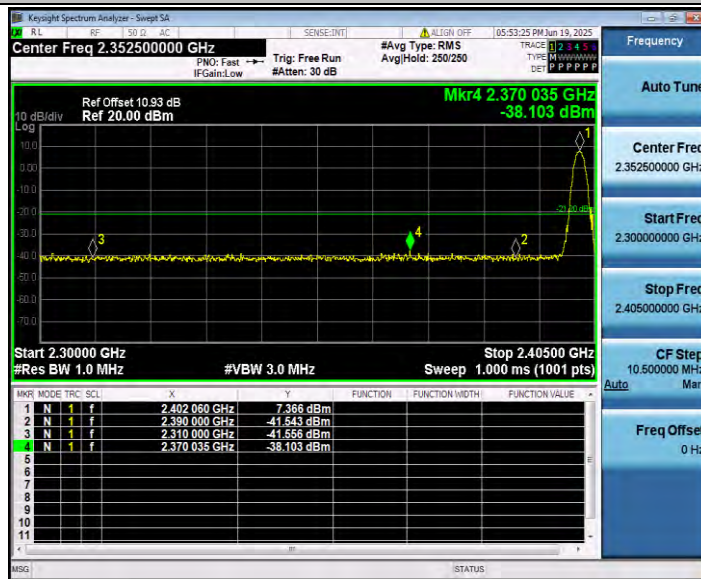
DH1_Ant1_High_2480_Peak



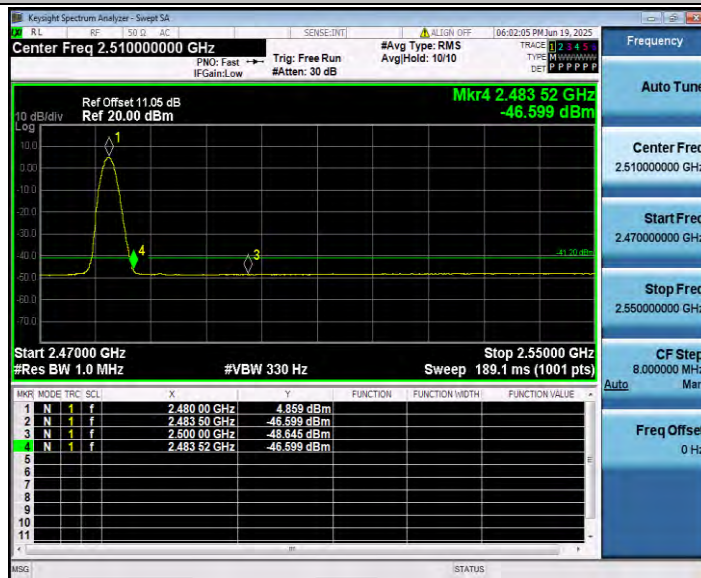
2DH1_Ant1_Low_2402_AV



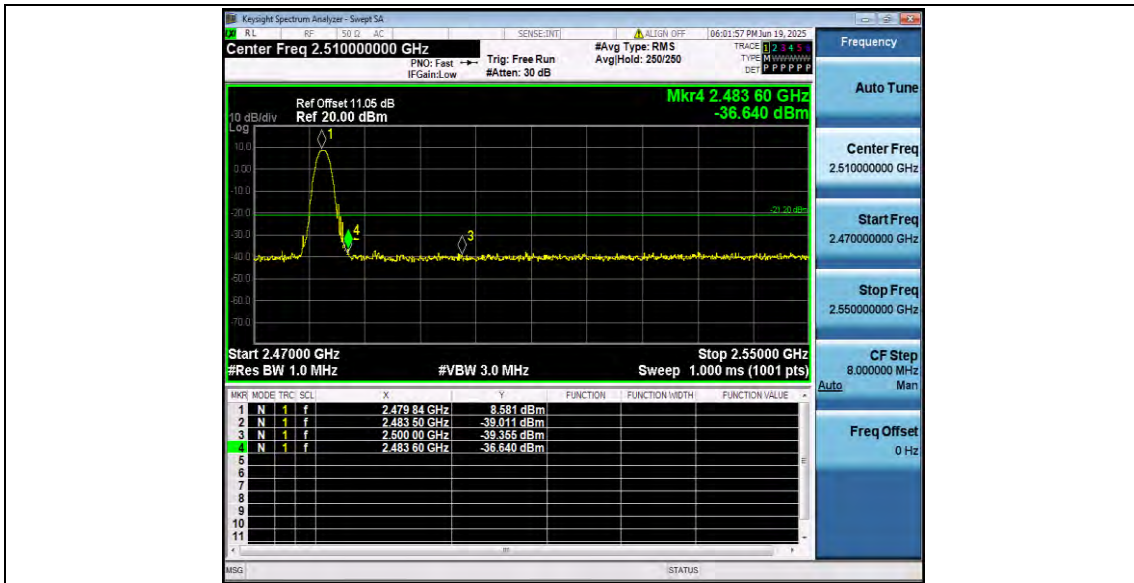
2DH1_Ant1_Low_2402_Peak



2DH1_Ant1_High_2480_AV



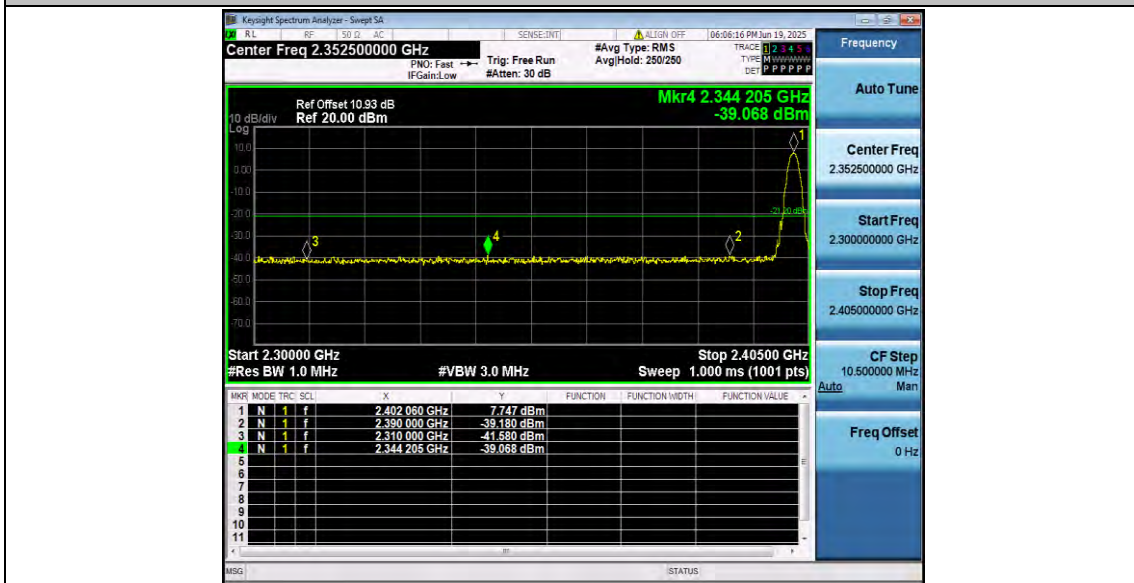
2DH1_Ant1_High_2480_Peak



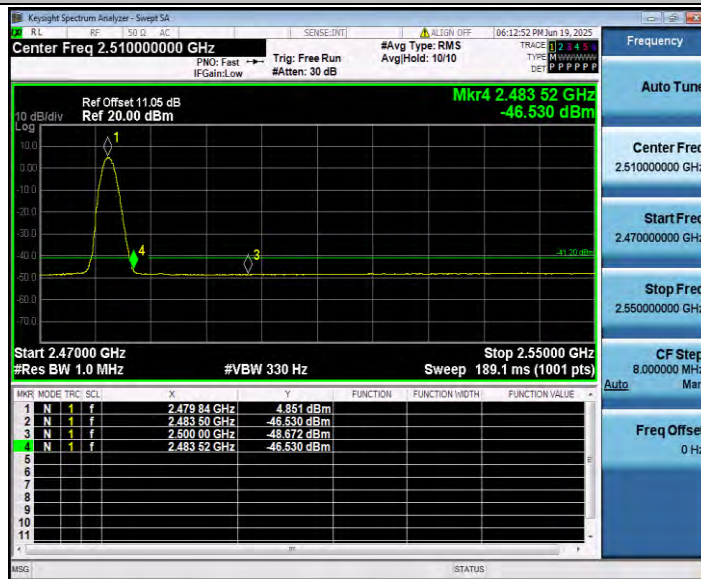
3DH1_Ant1_Low_2402_AV



3DH1_Ant1_Low_2402_Peak



3DH1_Ant1_High_2480_AV



3DH1_Ant1_High_2480_Peak

